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MICHIGAN TRAFFIC ACCIDENT FACTS 1989

prepared by the
Michigan Department of
State Police

PREFACE

The 1989 traffic fatality count was 1,630, down 4.3 percent from the 1988 figure of 1,704. Compared with 1988, injuries were down 0.8 percent and total accidents were up 1.7 percent. These figures translated into a death rate of 2.0 per 100 million miles of travel, down 9.1 percent from the death rate of 2.2 reported in 1988.

Exposure factors in 1989 showed across the board increases. They included motor vehicle registrations up 0.4 percent to 7.23 million; vehicle travel milage up 2.8 percent to 79.9 billion; and the number of licensed drivers up 0.8 percent to 7.39 million.

Factors influencing the traffic death toll and rate in 1989 were felt to include the trend toward higher speeds and increased travel. These factors, in combination, tended to counter some of the benefits of safety belt usage.

Data on accidents in this booklet were obtained from individual reports and summaries provided by local police departments, sheriff jurisdictions, and the Department of State Police. Other related information was obtained from the Departments of Transportation, State, and Public Health.

We acknowledge, with appreciation, all involved agencies for their assistance.

Col. Michael D. Robinson
Director
Michigan Department of State Police

MISSION STATEMENT

"The Michigan Department of State Police shall provide leadership, coordination, and delivery of law enforcement and support services in order to preserve, protect, and defend people and property, while respecting the rights and dignity of all persons."

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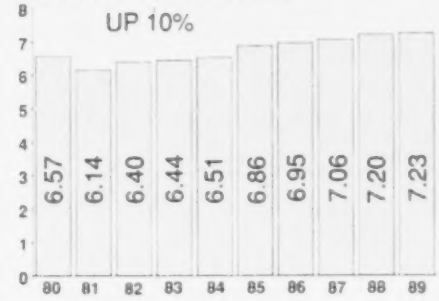
1989 QUICK FACTS

- There were **417,252** reported accidents of which **104,183** were personal injury type and **311,606** were property damage type accidents.
- A traffic accident was reported every **1** minute and **16** seconds.
- Children under the age of 15 accounted for **50.0** percent of the bicycle deaths.
- One person was killed every **5** hours and **22** minutes as a result of a traffic accident.
- Of those fatal accidents where the drinking condition was determined, **44.7** percent indicated that alcohol was a factor.
- There were **154,537** persons injured, crippled, or maimed in accidents.
- One person was injured every **3** minutes and **24** seconds in a traffic accident in Michigan in 1989.
- The economic loss in Michigan traffic accidents amounted to **$2,510,200,000.**
- For each person killed there were **94.8** persons injured.
- Excessive speed was indicated as the hazardous action by **29** percent of the drivers involved in fatal accidents.
- Of the **2,303** drivers involved in fatal accidents, **13.8** percent were under 20 years of age and **28.8** percent of all drivers involved in fatal accidents were under 25 years of age.
- Of all fatal accidents, **31.9** percent occurred at intersections.
- In the last five years, **8,167** persons have been killed in Michigan traffic accidents. This is an average of **1,633** per year. During the previous five-year period, **7,667** persons were killed for an average of **1,533** per year.
- One out of every **5,689** persons living in Michigan was killed in a traffic accident; one out of every **60** persons was injured.
- The **1,630** persons killed were the result of **1,463** fatal accidents for an average of **1.11** deaths per fatal accident.
- **55.0** percent of all accidents occurred in URBAN areas, BUT **71.2** percent of all traffic deaths occurred in RURAL areas.
- The pedestrian death toll for Michigan stands at **190** persons. This represents a decrease of **64** deaths from the 1988 figure.
- For each pedestrian killed, there were **21.0** pedestrians injured.
- Of the pedestrians killed, **45** percent were killed while crossing streets other than at intersections.
- Of the pedestrians killed, **26.3** percent were under the age of 20 years and **26.8** percent were 55 and older.
- During the past five years, a total of **1,166** pedestrians have been killed, an average of **233** per year.
- Of the **948,593** vehicle occupants involved in accidents, **789,111** or **83.2** percent were *reported* to have been using occupant restraints.

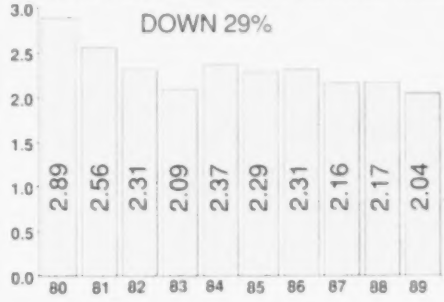
MICHIGAN TRAFFIC TRENDS (1980-1989)

MOTOR VEHICLE REGISTRATIONS
MILLIONS OF VEHICLES

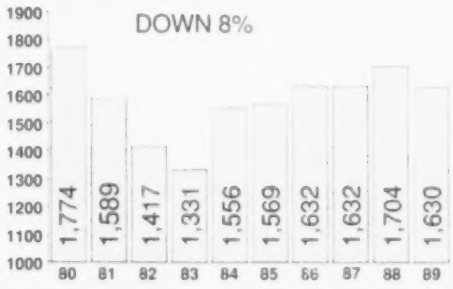


TOTAL DRIVERS
MILLIONS OF DRIVERS

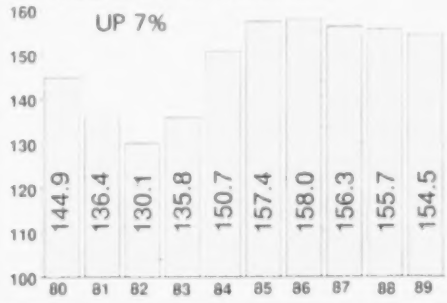
MILEAGE DEATH RATE
DEATHS PER 100 MILLION VEHICLE MILES



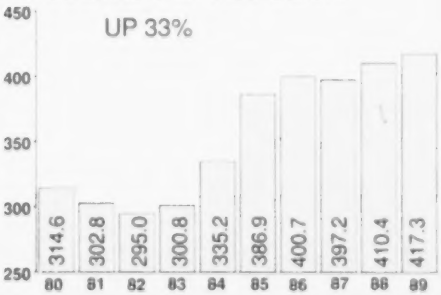
DEATHS
NUMBER OF DEATHS



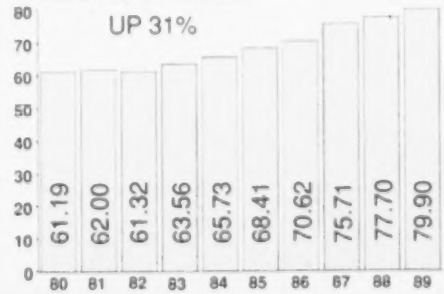
INJURIES
THOUSANDS OF INJURIES



ACCIDENTS
THOUSANDS OF ACCIDENTS



VEHICLE MILES TRAVELED
BILLIONS OF MILES



A fatality was counted when a person died due to injuries from a traffic accident, up to one year after the accident. Starting in 1979 this time period was reduced to 90 days after the accident. In 1988 this became a 30-day count.

1988-1989 SUMMARY TRENDS

- Total accidents increased **1.7%** statewide.
- Fatal accidents decreased **3.9%**.
- Persons killed decreased **4.3%**.
- Injury accidents decreased **0.8%**.
- Persons injured decreased **0.8%**.
- Persons sustaining "A" type injuries (the most serious) decreased **3.1%**.
- Deaths among vehicle occupants, drivers and passengers, decreased **0.5%**.
- Non vehicle occupant deaths, pedestrian, bicycle, motorcycle, those on farm equipment, and others decreased **21.1%**.
- Drinking was a factor in **44.7%** of all fatal accidents where the drinking condition was reported, a decrease of **4.1%**.

ANNUAL SUMMARY	1988	1989	PERCENT CHANGE
NUMBER OF ACCIDENTS			
Total Accidents	410,437	417,252	+ 1.7
Fatal Accidents	1,522	1,463	- 3.9
Personal Injury Accidents	105,066	104,183	- 0.8
Property Damage Accidents	303,849	311,606	+ 2.6
PERSONS KILLED			
Male	1,147	1,053	- 8.2
Female	557	577	+ 3.6
TOTAL	1,704	1,630	- 4.3
Drivers	912	892	- 2.2
Passengers	409	436	+ 6.6
Pedestrians	254	190	- 25.2
Bicyclists	32	32	0.0
Motorcyclists	83	71	- 14.5
Farm Equipment	3	4	+ 33.3
Other	11	5	- 54.5
TOTAL	1,704	1,630	- 4.3
DRINKING IN FATAL ACCIDENTS			
Had Been Drinking	705(46.3%)	651(44.5%)	- 7.7
Had Not Been Drinking	808(53.1%)	805(55.0%)	- 0.4
Unknown Drinking	9 (0.6%)	7 (0.5%)	- 22.2
PERSONS INJURED			
"A" Injury	22,565	21,861	- 3.1
"B" Injury	43,095	41,666	- 3.3
"C" Injury	90,053	91,010	+ 1.1
TOTAL	155,713	154,537	- 0.8
PERSONS IN ACCIDENTS			
Killed and Injured	157,417	156,167	- 0.8
Not Injured	873,783	879,597	+ 0.7
TOTAL	1,031,200	1,035,764	+ 0.4

The continuous presence of alcohol as a factor in accidents indicates a need for more legislation in the accident field whereby all drivers involved in accidents would be subjected to a chemical test to determine their blood-alcohol content.

As a measure of accomplishment, Michigan's death rate per 100 million miles has been driven downward from an all-time high of 16.8 in 1935 to the current low of 2.0 this year. Applying the 100 million mile death rate unit to the past three decades will reveal marked progress in the effort to save lives on the state's roadways.

A multi-factored effort may be credited with this overall improvement and rests largely on some rather exhaustive participation by several disciplines. Improved highway engineering techniques, technical advances in automobile design and manufacture, emergency medical treatment advancement, more adequately trained drivers, and the efficient use of selective enforcement have all been responsible for this better experience.

Traffic accidents, in general, result from various causes, direct and indirect. The three elements of traffic; the driver, the highway, and the motor vehicle, contribute, in some measure, to every accident. A preponderance of evidence, however, points to driver error as the chief cause of the majority of accidents.

Many common driver failures can be cited as contributory factors in accidents. Without any particular priority, enforcement investigation shows irresponsible attitude, lack of skill, inattention, fatigue, physical impairment, lack of knowledge, and failure to drive defensively as some of the accident-producing factors. It may be noted that the more experienced driver compensates for many of these self-induced mistakes, drawing on learned skills and experiential techniques.

Significantly, driver age group 15-24 represents 18.3 percent of the total licensed drivers in Michigan. However, they account for a disproportionate number of all accidents at 28.6 percent and an involvement of 28.8 percent in all fatal accidents. Comparing other ten-year age groupings with this record underscores the high risk potential of the group and strengthens conclusions drawn from past law enforcement experiences.

One of the best prospects for accident reduction and safer driving is a quality driver education and driver improvement program. This program enrolls 97 percent of eligible students in qualifying courses annually. Driver improvement schools, relating to courts, work to reestablish proper driving skills and attitudes in problem drivers.

With the entrance of the Federal Government into the state traffic safety field (Highway Safety Act of 1966), an acceleration of research and development is producing promising dividends. Variables such as highway design, attitudinal research, and program studies are being given a closer look with an eye toward more comprehensive accident prevention planning. Conclusions cannot be easily reached and the complexity of the total problem demands intensified enforcement participation.

With exposure factors of increased traffic continuing to mount, it is obvious that every effort must be made to implement effective programs. The combined Federal-State jurisdictions will need maximum support from officials and citizens alike if the present trend is to be continued and more lives are to be saved.

PRINCIPAL CLASSES OF MOTOR-VEHICLE DEATHS

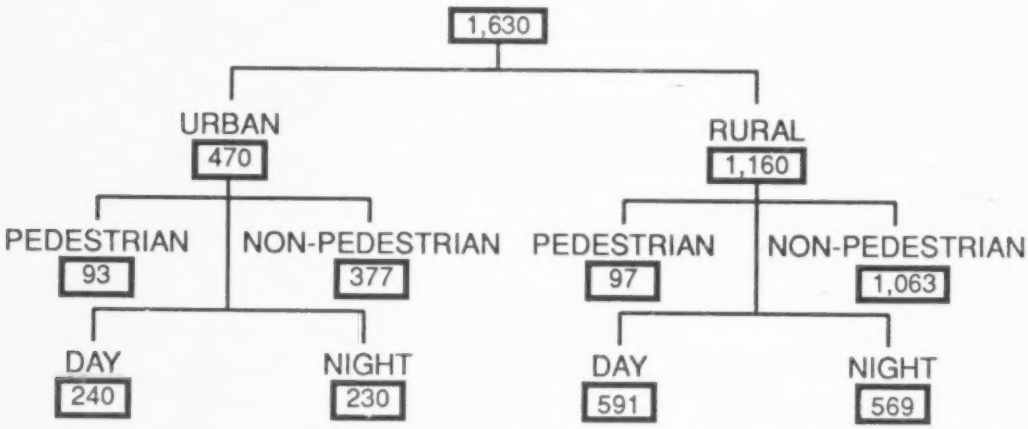
About three out of every four deaths in 1989 occurred in places classified as rural. In URBAN areas, 19.8 percent of the victims were pedestrians and in RURAL areas, 86.3 percent of the victims were occupants of motor vehicles. Approximately 49 percent of all deaths occurred in night accidents.

Total Pedestrians **190**

Total Non-Pedestrians . **1,440**

Total Day **831**

Total Night **799**



FATAL ACCIDENTS BY DATE AND MONTH

DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
01.....	3	*	1	5	2	5	8	4	7	4	2	2	43
02.....	5	3	5	*	1	4	3	6	11	3	1	9	51
03.....	4	5	3	3	1	8	6	6	7	5	4	3	55
04.....	2	8	3	1	3	5	5	8	5	5	6	4	55
05.....	5	4	3	*	5	4	9	9	6	4	5	2	56
06.....	4	1	2	1	4	4	5	8	6	3	5	2	45
07.....	3	6	2	3	2	3	3	2	3	7	4	8	46
08.....	1	4	1	5	3	2	7	2	1	4	*	5	35
09.....	5	3	3	2	3	3	6	7	7	2	2	3	46
10.....	5	5	*	3	4	6	3	4	4	4	5	3	46
11.....	5	3	5	1	4	9	4	9	5	4	5	3	57
12.....	4	1	3	3	7	4	6	7	*	5	1	3	44
13.....	6	3	1	4	8	2	3	4	8	4	3	5	51
14.....	7	5	1	3	6	3	6	3	5	4	3	9	55
15.....	3	4	1	6	4	3	4	3	4	5	7	10	54
16.....	2	3	4	1	2	2	2	1	4	5	10	4	40
17.....	*	3	5	1	1	10	4	9	4	6	4	7	54
18.....	4	2	5	1	1	6	3	4	2	2	4	5	39
19.....	*	5	*	1	3	2	2	3	*	3	2	2	23
20.....	7	4	3	1	3	3	4	6	6	4	-2	1	44
21.....	5	3	3	1	7	5	5	4	5	1	3	10	52
22.....	5	2	4	6	4	4	6	2	6	7	5	8	60
23.....	5	4	3	5	3	7	4	5	8	4	4	7	59
24.....	5	3	8	3	8	11	1	9	3	2	3	7	63
25.....	2	4	3	4	4	8	4	4	2	3	2	5	45
26.....	2	3	2	4	2	*	2	7	5	2	1	7	37
27.....	3	2	2	3	4	3	5	9	3	10	4	5	53
28.....	12	3	2	6	5	4	6	7	1	8	2	4	60
29.....	3		1	5	3	4	5	1	7	2	1	6	38
30.....	1		4	4	3	8	3	4	3	2	2	*	34
31.....	5		3		3		4	1		7		*	23
TOTALS..	123	96	86	86	113	142	138	158	138	131	103	149	1463

*Deathless Days Holiday Period

PERSONS KILLED BY DATE AND MONTH

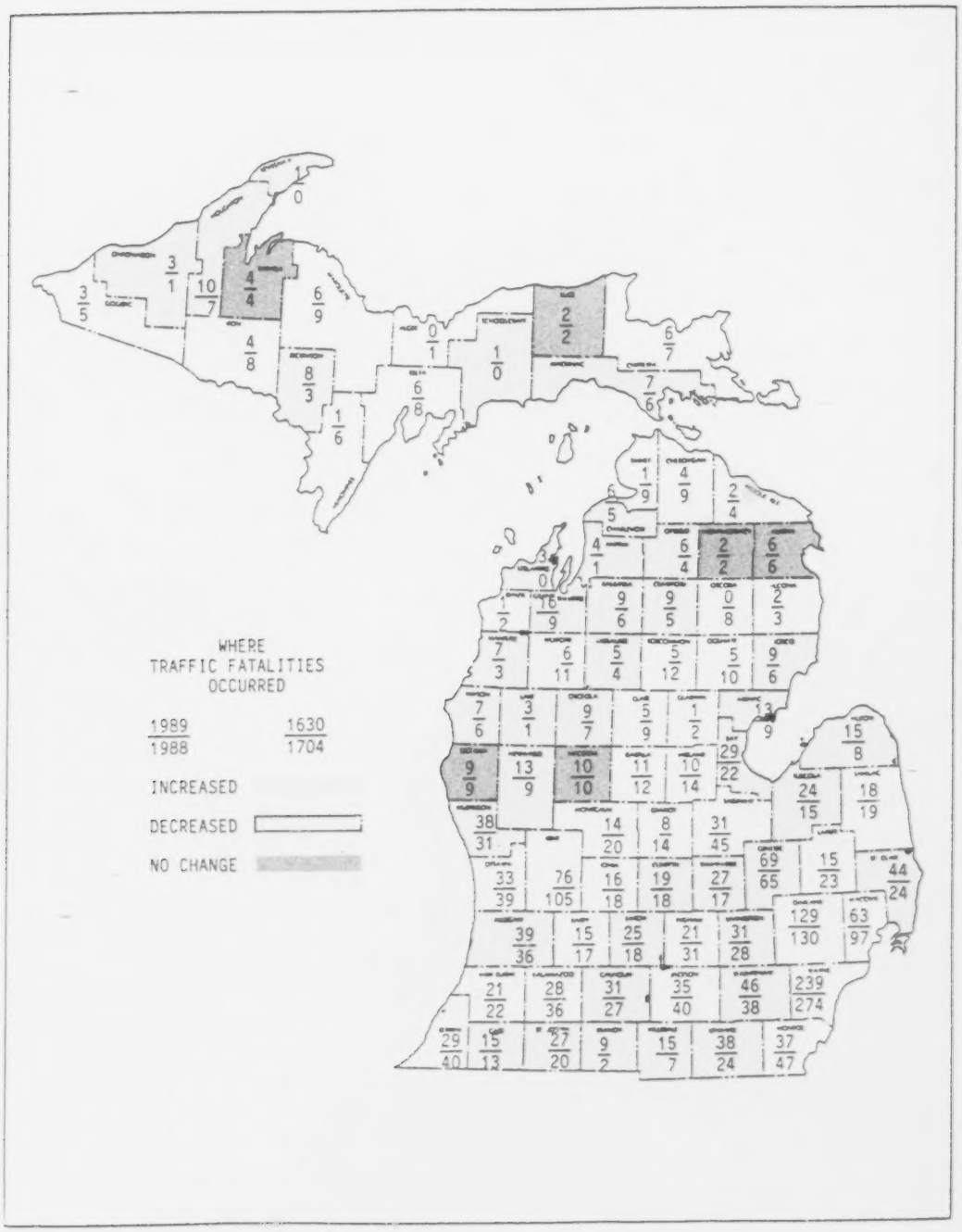
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
01.....	4	*	1	6	2	5	9	4	7	4	2	4	48
02.....	5	3	5	*	1	4	3	8	14	4	1	11	59
03.....	4	5	4	4	1	9	6	6	8	5	6	4	62
04.....	2	10	3	1	3	6	5	9	7	5	8	4	63
05.....	5	4	5	*	5	4	9	12	7	4	5	2	62
06.....	4	1	2	1	4	4	6	8	6	5	7	2	50
07.....	3	6	2	3	3	3	3	2	3	8	5	10	51
08.....	1	5	1	6	3	2	7	2	1	7	*	5	40
09.....	5	3	3	2	3	3	8	7	8	2	2	3	49
10.....	6	5	*	4	4	6	3	4	4	5	7	3	51
11.....	5	5	7	1	4	11	6	11	5	4	6	3	68
12.....	6	1	3	3	8	4	6	8	*	5	1	3	48
13.....	6	3	1	5	9	2	3	5	9	5	4	5	57
14.....	9	5	1	3	6	3	6	5	5	4	3	9	59
15.....	3	5	1	7	5	3	5	3	4	5	11	11	63
16.....	2	3	4	1	2	2	2	1	4	5	11	4	41
17.....	*	3	5	1	1	11	4	10	5	6	5	9	60
18.....	5	2	7	1	1	7	3	4	2	2	4	5	43
19.....	*	5	*	1	3	4	2	3	*	3	2	2	25
20.....	7	4	3	1	3	3	4	7	7	4	2	1	46
21.....	6	3	3	1	7	5	7	5	5	1	4	10	57
22.....	7	2	4	7	5	4	8	2	6	7	6	8	66
23.....	5	4	3	5	3	10	4	5	10	4	4	7	64
24.....	5	3	9	3	8	13	1	9	3	2	3	11	70
25.....	3	4	3	7	4	9	6	5	2	3	2	6	54
26.....	2	3	2	4	3	*	2	7	6	2	1	7	39
27.....	3	2	2	3	4	3	5	9	3	10	6	5	55
28.....	14	3	2	6	8	4	9	9	1	9	2	4	71
29.....	5		1	5	3	4	6	1	10	2	1	6	44
30.....	1		4	4	4	8	4	5	3	3	2	*	38
31.....	5		3		3		4	1		11		*	27
TOTALS..	138	102	94	96	123	156	156	177	155	146	123	164	1630

*Deathless Days Holiday Period

This year Michigan experienced 12 deathless days on her highways.

MICHIGAN TRAFFIC ACCIDENT FACTS FOR VARIOUS TIME PERIODS

ACCIDENT FACTS	During 1989 Per Day	Per Week	Per Month	Yearly Comparisons 1988	1989	% Change 1988-1989
Deaths.....	4.5	31.3	136	1,704	1,630	- 4.3
Injuries.....	423	2,972	12,878	155,713	154,537	- 0.8
Accidents.....	1,143	8,024	34,771	410,437	417,252	+ 1.7
Cost of Accidents.	$6,877,260	$48,273,077	$209,183,333	$2,470,800,000	$2,510,200,000	+ 1.6
Drivers Involved..	1,914	13,433	58,209	690,562	698,504	+ 1.2
Vehicles Involved.	1,916	13,450	58,283	691,476	699,399	+ 1.1


WHERE
TRAFFIC FATALITIES
OCCURRED
1989 / 1988
1630 / 1704
INCREASED
DECREASED
NO CHANGE

MOTOR VEHICLE DEATHS, MILEAGE, AND RATES BY MONTH

MONTH	TRAFFIC DEATHS					1989 PERCENTAGES		
	1985	1986	1987	1988	1989	Percent Deaths	Percent Miles Driven	Death Rate*
January.....	108	86	91	129	138	8.5	7.3	2.4
February....	91	77	104	107	102	6.2	7.0	1.8
March.....	77	103	99	103	94	5.8	7.8	1.5
April.....	133	127	106	104	96	5.9	7.5	1.6
May.....	137	131	138	145	123	7.5	8.5	1.8
June.....	167	175	165	152	156	9.6	8.4	2.3
July.....	146	186	151	175	156	9.6	9.5	2.1
August.....	136	176	176	158	177	10.9	9.5	2.3
September...	131	131	149	178	155	9.5	8.8	2.2
October.....	135	144	164	159	146	8.9	9.0	2.0
November....	161	159	161	127	123	7.5	8.6	1.8
December....	147	137	128	167	164	10.1	8.1	2.5
TOTALS.....	1,569	1,632	1,632	1,704	1,630	100.0	100.0	2.0

*Deaths per 100 million vehicle miles.

In 1989 the highest death total was in August. Over the five year period shown above August held the highest average, followed by June.

MOTORCYCLE AND MOTOR SCOOTER DATA

MOTORCYCLE & MOTOR SCOOTER DATA	1985	1986	1987	1988	1989
Registrations*.....	203,226	183,933	171,499	157,898	142,061
Deaths.....	142	110	103	76	68
Death Rate*.....	7.0	6.0	6.0	4.8	4.8
Estimated Mileage**(millions)..	609,678	551,799	514,497	473,694	426,183
Death Rate***.....	23.3	20.0	20.2	16.2	15.8

*Based on 10,000 cycle registrations.
**Based on 3,000 miles per cycle.
***Based on deaths per 100 million vehicle miles traveled.

Motorcycle registrations in 1980 were at a peak with the following years reflecting a gradual decline; 1989 showed a 10.0 percent decrease from 1988, this compared with a 0.4 percent increase in total motor vehicle registrations.

Based on deaths per 10,000 registrations, the mortality rate for motorcycles was 4.8 while deaths for all vehicles was 2.3 per 10,000 registered.

There are no accurate mileage figures for motorcycles, but estimates range from 3,000 to 5,000 miles per year for personal cycles. Such figures indicate that the mileage death rate, based on rider deaths only, may range between 9.6 and 15.8 (deaths per 100 million vehicle miles of travel). This compares with the 1989 death rate for all motor vehicles of 2.0 per 100 million miles which includes pedestrian and other non-occupant deaths among total deaths.

There were 649 moped involved accidents; in those accidents, 4 persons were killed and 573 were injured.

Detailed information be can obtained on Michigan Moped and Michigan Motorcycle and Motor Scooter Data by contacting the Michigan Department of State Police, Traffic Services Division.

MICHIGAN BICYCLE ACCIDENTS

In 1989, there were 32 bicyclists killed and 3,018 injured in 3,543 total reported accidents involving bicycles and motor vehicles. The number killed tied the 1988 figure, and the injuries recorded were 5.5 percent lower.

Children under 15 years of age accounted for 16 or 50.0 percent of the bicycle deaths in 1989.

Generally, three out of five bicyclists are killed in rural areas. But in 1989, there were 14 rural deaths and 18 were killed in urban areas. Past experience indicates that urban areas have two to three times as many bicycle injuries and total reported accidents compared with rural experience and this was true again in 1989.

AGE of BICYCLIST KILLED	1985	1986	1987	1988	1989
0 - 4 years	1	0	2	1	0
5 - 9 years	13	8	5	7	6
10 - 14 years	11	14	11	8	10
15 - 19 years	6	10	6	5	4
20 - 24 years	3	2	5	3	2
25 - 34 years	4	4	4	1	3
35 - 44 years	3	1	3	3	1
45 - 54 years	0	2	2	1	1
55 - 64 years	3	1	1	1	2
65 - 74 years	2	1	1	0	1
75 and over	0	5	0	2	2
Not Stated	0	0	0	0	0
TOTALS	46	48	40	32	32

AGE of BICYCLIST INJURED	1985	1986	1987	1988	1989
0 - 4 years	61	47	45	42	61
5 - 9 years	576	636	621	552	576
10 - 14 years	1,318	1,374	1,319	1,082	1,029
15 - 19 years	814	790	759	585	492
20 - 24 years	356	333	331	299	275
25 - 34 years	364	314	340	333	303
35 - 44 years	118	146	128	142	119
45 - 54 years	65	51	61	56	62
55 - 64 years	42	25	49	44	43
65 - 74 years	23	31	20	17	25
75 and over	11	11	9	15	10
Not Stated	37	29	34	25	23
TOTALS	3,785	3,787	3,716	3,192	3,018

Detailed information can be obtained on Michigan Bicycle Accidents by contacting the Michigan Department of State Police, Traffic Services Division.

MICHIGAN RAILROAD ACCIDENTS

Of the 279 grade crossing accidents which happened in Michigan during 1989, 26 were fatal accidents in which 34 persons were killed. Approximately 73 percent of the vehicles struck were passenger cars; the rest were mostly trucks with one piece of farm equipment also being involved.

Three out of four drivers involved in those accidents were local residents who either drove too fast and were unable to stop or disregarded a traffic signal or sign.

During the daylight hours 149 or 53.4 percent of the train accidents occurred.

Detailed information can be obtained on Michigan Railroad Accidents by contacting the Michigan Department of State Police, Traffic Services Division.

MICHIGAN MOTOR VEHICLE-DEER INVOLVED/ASSOCIATED ACCIDENTS

Michigan had 46,784 reported motor vehicle-deer accidents during 1989 in which 6 persons were killed as a result of the collision. About 75 percent of the vehicles involved were passenger cars.

Accidents involving deer occurred most frequently during the fourth quarter (48%) and the second quarter (20%) of the year for a total of 68 percent of all reported motor vehicle-deer collisions.

Over 63 percent of the drivers involved were local residents with 68.3 percent of the accidents occurring during hours of darkness.

Contrary to common belief, motor vehicle-deer accidents are happening in Michigan's southern, heavily populated counties; Kent County had the highest with 1,541 such accidents in 1989.

Detailed information can be obtained on Motor Vehicle-Deer Accidents by contacting the Michigan Department of State Police, Traffic Services Division.

MICHIGAN FARM EQUIPMENT ACCIDENTS

A total of 304 accidents involving farm equipment were reported on Michigan roadways during 1989. Of these accidents, 271 were the result of a collision with another vehicle. In 74 of these accidents, both vehicles were traveling in the same direction resulting in a rear end collision. Of the total accidents, 79.3 percent happened during daylight hours and 81.6 percent happened on dry roads.

Farm equipment accidents claimed the lives of 7 persons on Michigan roadways during 1989. The victims included 4 persons on farm equipment, 2 passengers in other vehicles, and 1 motorcyclist. Of the drivers involved in farm equipment accidents, 81 percent were males.

Detailed information can be obtained on Michigan Farm Equipment Accidents by contacting the Michigan Department of State Police, Traffic Services Division.

SNOWMOBILE ACCIDENTS

TYPE of ACCIDENT	1988-1989 NUMBER of ACCIDENTS Total*	Fatal	Injury	PD	NUMBER of PERSONS Killed	Injured	1987-1988 Accidents	Killed	Injured
Overturned.....	66	1	62	3	1	64	51	0	52
Other Non-collision...	53	0	51	2	0	51	28	1	26
Collision with:									
Pedestrian.....	9	2	7	0	2	11	9	0	9
M/V in Transport.....	107	1	58	48	1	77	106	3	79
M/V on Other Roadway..	0	0	0	0	0	0	0	0	0
Parked Motor Vehicle..	14	0	7	7	0	7	20	1	12
Railroad Train.....	0	0	0	0	0	0	0	0	0
Pedalcycle.....	0	0	0	0	0	0	0	0	0
Animal.....	3	0	0	3	0	0	6	0	0
Fixed Object.....	137	7	114	16	7	124	106	9	101
Other Object.....	5	0	5	0	0	5	3	1	2
TOTALS.....	394	11	304	79	11	339	329	15	281

*Includes 167 Traffic Accidents - 227 Non-Traffic Accidents.

Reflecting steadfast enthusiasm with the sport, snowmobile accident data fell within the norm with total reported accidents up 19.8 percent, deaths down 26.7 percent, and injuries up 20.6 percent compared with the last snow season.

Statistics show Michigan had 69,251 registered snowmobiles during the 1968-1969 snow season. Changes in the reporting of registrations does not allow for a like comparison, but the Michigan Department of State does report that there are 204,200 snowmobile registrations currently on file.

Snowmobiles in the state of Michigan are not a passing fancy to the dealt with lightly; their popularity has brought with it many complications, particularly those pertaining to safe operation. There must be continuous concern to improve safety for all persons involved in snowmobiling.

Detailed information can be obtained on Michigan Snowmobile Accidents by contacting the Michigan Department of State Police, Traffic Services Division.

OPERATION C.A.R.E.

Operation C.A.R.E. (Combined Accident Reduction Effort) started in 1977 as a joint traffic enforcement project between the Departments of Michigan State Police and Indiana State Police. Over the years, Operation C.A.R.E. has evolved into a national organization with membership from every state.

Michigan's 1989 Operation C.A.R.E. campaign provided for additional hours of overtime that allowed troopers to step up patrol efforts on our state's highways in an endeavor to keep them safe. During the three summer holidays, Memorial Day, July 4th, and Labor Day, troopers provided 4,457 motorist assists, arrested 538 drunk drivers, and issued 26,399 traffic citations, many of which were for speed and restraint violations. Along with this activity, time was spent on liquor inspections and verbal warnings.

As in past years, numerous volunteer groups manned rest areas throughout the state providing information, safety literature, and refreshments to travelers in an effort to further promote safe motoring.

HOLIDAY DEATH COUNT

YEAR	Memorial Day	July 4th	Labor Day
1975.....	28	27	25
1976.....	34	19	31
1977.....	32	34	18
1978.....	25	23	31
1979.....	17	12	31
C 1980.....	23	25	26
1981.....	12	22	17
A 1982.....	9	30	21
1983.....	13	22	17
R 1984.....	18	8	19
1985.....	23	17	17
E 1986.....	16	23	21
1987.....	16	18	32
1988.....	22	20	17
1989.....	15	23	29

OCCUPANT RESTRAINTS

VEHICLE OCCUPANT RESTRAINT DATA	Total Persons	Injury Severity: Fatal	A	B	C	O
Using Restraints.....	789,111	337	9,023	21,653	68,193	689,905
Not Using Restraints.....	159,482	972	9,393	14,987	17,948	116,182
TOTAL OCCUPANTS.....	948,593	1,309	18,416	36,640	86,141	806,087

Since April 1982, Michigan has had a child restraint law, and in July of 1985 a mandatory restraint law went into effect for all front seat occupants. Other countries have been very successful in further reducing the number of deaths and injuries due to traffic accidents by passing laws requiring all vehicle occupants to be restrained.

A review of Michigan restraint data demonstrates a vast difference between reported restraint usage and actual observed usage. Of the total occupants involved in accidents in 1989, a **reported** 83.2 percent were using restraints, up from the 79.7 percent **reported** in 1988. Public attitudes must change. Through long term comprehensive, informational and educational programs designed to impact an entire population the hope is that not only will people report wearing seat belts, but that they will actually do so.

MONTHLY PERCENTAGE OF OCCUPANT RESTRAINT USAGE

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1980....	11.0	10.9	11.1	10.3	9.0	8.2	9.6	9.9	10.4	10.8	10.7	11.1	10.3
1981....	11.1	11.1	10.9	10.2	10.1	10.5	10.9	10.5	11.5	11.4	11.3	12.4	11.1
1982....	13.4	13.8	13.8	15.7	15.3	15.1	15.4	14.9	15.8	15.6	17.3	16.5	15.1
1983....	16.8	17.0	17.1	17.2	17.6	17.5	18.1	18.1	17.8	18.9	20.2	20.8	18.2
1984....	21.0	20.4	20.8	20.6	20.9	20.7	22.5	22.6	23.4	24.0	25.5	27.1	22.8
1985....	28.9	28.6	31.0	31.6	31.1	34.9	75.0	73.8	73.4	77.2	78.2	79.4	55.2
1986....	79.2	79.5	77.6	77.2	77.5	77.0	77.0	76.4	77.5	78.4	79.4	79.0	77.8
1987....	79.9	78.0	78.8	79.0	78.2	78.5	78.3	78.8	80.0	80.6	81.0	81.4	79.2
1988....	81.3	82.0	80.4	79.9	79.9	80.2	79.0	77.6	77.7	77.9	81.1	82.0	79.7
1989....	82.2	82.2	81.3	81.0	81.6	81.6	81.6	81.6	82.0	83.2	84.4	84.5	83.2

1989
REPORTED RESTRAINT USAGE (PERCENT) BY COUNTY
JANUARY-DECEMBER

1989 - Average Statewide Restraint Usage was 83.2% (as reported).

1988 - Average Statewide Restraint Usage was 79.7% (as reported).

Highlighted Counties had Seat Belt Usage Rates Above (or tied with) the 1989 Statewide Usage Rate Level.

1989
RESTRAINT USAGE (PERCENT)
BY FATAL "OCCUPANT" VICTIMS BY COUNTY

% of Fatal Occupants Wearing Seat Belts
Number of Fatal "Occupants"

The Average Statewide Seat Belt Usage (by Percent) Among Fatal Vehicle Occupants in 1989 was 25.7%.

AGE OF MAJORITY ACCIDENT DATA

18- TO 20-Year-Olds

One of the most publicized aspects of the drinking and driving problem has been the emphasis on the "young driver," 18 to 20 years of age. Very diverse opinions as to the significance of the data exist among the concerned interest groups. Michigan's legal drinking age returned to 21 in 1979.

Michigan data reveals that the young drivers are maintaining their downward trend (80-89) of involvement in alcohol-involved accidents and O.U.I.L. arrests; this counters an upward trend established in the mid- to late 1970s. The push to remove drunk drivers from the roadways, as viewed by the number of O.U.I.L. arrests in 1983 and '84, began a decline in 1985 that continued through 1989 as the many reductions in manpower and funding took their toll.

In an attempt to display the most pertinent information for this publication, the following schedules have been selected from the complete study.

DRINKING DRIVERS INVOLVED IN ACCIDENTS

	18 - 20 YEARS				ALL AGES			
ACCIDENT TYPE	1987	1988	1989	88-89 % Change	1987	1988	1989	88-89 % Change
All	4,379	4,177	3,956	- 5.3	37,190	36,274	34,641	- 4.5
Fatal	85	91	86	- 5.5	695	702	651	- 7.3
Injury	2,072	1,920	1,852	- 3.5	17,125	16,575	15,806	- 4.6
Property Damage	2,222	2,166	2,018	- 6.8	19,370	18,997	18,184	- 4.3

ALL DRIVERS INVOLVED IN ACCIDENTS

	18 - 20 YEARS				ALL AGES			
ACCIDENT TYPE	1987	1988	1989	88-89 % Change	1987	1988	1989	88-89 % Change
All	78,125	78,797	81,321	+ 3.2	671,805	690,562	698,504	+ 1.2
Fatal	255	279	265	- 5.0	2,262	2,383	2,303	- 3.4
Injury	22,722	22,396	22,664	+ 1.2	189,127	188,018	186,684	- 0.7
Property Damage	55,148	56,122	58,392	+ 4.0	480,416	500,161	509,517	+ 1.9

DRINKING DRIVERS IN PERCENT OF ALL DRIVERS INVOLVED IN ACCIDENTS

	18 - 20 YEARS				ALL AGES			
ACCIDENT TYPE	1987	1988	1989	88-89 Change	1987	1988	1989	88-89 Change
All	5.6	5.3	4.9	- 0.4	5.5	5.3	5.0	- 0.3
Fatal	33.3	32.6	32.5	- 0.1	30.7	29.5	28.3	- 1.2
Injury	9.1	8.6	8.2	- 0.4	9.1	8.8	8.5	- 0.3
Property Damage	4.0	3.9	3.5	- 0.4	4.0	3.8	3.6	- 0.2

DRIVERS ARRESTED FOR OPERATING UNDER THE INFLUENCE OF LIQUOR (O.U.I.L.)

	18 - 20 YEARS				ALL AGES			
ARRESTS	1987	1988	1989	88-89 % Change	1987	1988	1989	88-89 % Change
Total	5,741	5,623	5,569	- 1.0	63,966	62,939	62,974	+ 0.1
Male	4,976	4,913	4,787	- 2.6	55,406	54,543	54,159	- 0.7
Female	765	710	782	+10.1	8,560	8,396	8,815	+ 5.0

BREATH TESTING

Act No. 253, Public Acts of 1967, which became effective November 2, 1967, created "Implied Consent" in Michigan.

Under the National Highway Safety Act, the Federal government provided Michigan with financial assistance to purchase breath testing equipment and train officers in the use of the equipment. A training program was initiated with the cooperation of Michigan State University, Michigan Department of Public Health, Michigan Law Enforcement Officers Training Council, and the Michigan Department of State Police. Training consisted of a comprehensive 40-hour course which was conducted at Michigan State University.

Michigan State University ceased active participation in the program in October, 1978, and the Department of Public Health and Department of State Police continued to train officers, through cooperative efforts, at the Michigan State Police Training Academy and the Detroit Metropolitan Police Academy. Effective April 1, 1981, the Legislature delegated the responsibility of certifying all breathalyzer equipment and operators to the Department of State Police. All basic schools are now conducted by Michigan State Police personnel at the Michigan State Police Academy and at Regional Training Centers.

Police agencies from throughout Michigan participate in the program. Through June, 1990, 7,691 officers will have been trained. In addition to the initial training program, officers are required to be recertified biennially during one-day regional sessions to maintain their proficiency of operation and to keep abreast of the many changes in law and procedures. Currently there are nearly 2,450 active operators.

Initially, 246 breathalyzers and 248 simulators were received during the grant period. In 1979 an additional 156 breathalyzers were purchased and distributed to participating agencies. All units are maintained and serviced through a scheduled program by certified inspector-operators from the Michigan State Police and Detroit Police Department.

Test Results	Number of Tests	% of Total Tests	% of Arrests
.00 to .07.....	1,195	2.4	
.08 to .099.....	1,668	3.3	
.10 to .149.....	17,541	34.9	
.15 and over.....	29,811	59.4	
Total breath and blood tests**..	50,215	100.0	79.7
Total tests refused*.....	12,759		20.3
Total persons arrested.....	62,974		100.0

*Based on refusal forms received by Department of State (includes information on certificates of conviction).
**Blood test results available as of April, 1983.

Blood-alcohol levels of .04 are definitely associated with increased accident involvement according to studies. When the alcohol level reaches .06, the probability of having an accident is twice that of the no-alcohol level, at .10 the probability is six times greater, and at .15 it is 25 times greater than if the driver were sober.

O.U.I.L. arrests increased slightly in 1989; up 35 more arrests than in 1988. In 1989 there were 12,695 arrests for drunk driving made at accident scenes.

FATAL ACCIDENTS AND FATALITIES BY COUNTY WITH DRINKING INVOLVEMENT

	ACCIDENTS			PERSONS		
COUNTY	ALL FATAL ACCIDENTS	HBD FATAL ACCIDENTS	PERCENT HBD	TOTAL FATALITIES	HBD FATALITIES	PERCENT HBD
Alcona	2	2	100.0	2	2	100.0
Alger	0	0	0.0	0	0	0.0
Allegan	32	12	37.5	39	15	38.5
Alpena	3	1	33.3	6	1	16.7
Antrim	4	3	75.0	4	3	75.0
Arenac	9	5	55.6	13	6	46.2
Baraga	3	3	100.0	4	4	100.0
Barry	15	5	33.3	15	5	33.3
Bay	27	9	33.3	29	10	34.5
Benzie	1	0	0.0	1	0	0.0
Berrien	27	12	44.4	29	14	48.3
Branch	8	5	62.5	9	6	66.7
Calhoun	24	13	54.2	31	16	51.6
Cass	12	8	66.7	15	11	73.3
Charlevoix	5	3	60.0	6	4	66.7
Cheboygan	3	1	33.3	4	2	50.0
Chippewa	5	2	40.0	6	3	50.0
Clare	5	3	60.0	5	3	60.0
Clinton	16	9	56.3	19	12	63.2
Crawford	6	3	50.0	9	3	33.3
Delta	6	2	33.3	6	2	33.3
Dickinson	7	3	42.9	8	4	50.0
Eaton	22	6	27.3	25	8	32.0
Emmet	1	1	100.0	1	1	100.0
Genesee	60	36	60.0	69	43	62.3
Gladwin	1	1	100.0	1	1	100.0
Gogebic	3	1	33.3	3	1	33.3
Grand Traverse	13	4	30.8	16	5	31.3
Gratiot	7	3	42.9	8	4	50.0
Hillsdale	12	3	25.0	15	4	26.7
Houghton	10	6	60.0	10	6	60.0
Huron	12	9	75.0	15	10	66.7
Ingham	20	6	30.0	21	6	28.6
Ionia	14	6	42.9	16	8	50.0
Iosco	7	4	57.1	9	5	55.6
Iron	4	2	50.0	4	2	50.0
Isabella	10	4	40.0	11	4	36.4
Jackson	34	17	50.0	35	17	48.6
Kalamazoo	28	14	50.0	28	14	50.0
Kalkaska	7	1	14.3	9	3	33.3
Kent	74	19	25.7	76	20	26.3
Keweenaw	1	0	0.0	1	0	0.0
Lake	3	1	33.3	3	1	33.3
Lapeer	15	9	60.0	15	9	60.0
Leelanau	3	3	100.0	3	3	100.0
Lenawee	29	10	34.5	38	16	42.1
Livingston	28	10	35.7	31	12	38.7
Luce	2	2	100.0	2	2	100.0
Mackinac	5	3	60.0	7	4	57.1
Macomb	57	26	45.6	63	31	49.2
Manistee	7	4	57.1	7	4	57.1
Marquette	6	4	66.7	6	4	66.7
Mason	6	1	16.7	7	1	14.3
Mecosta	10	7	70.0	10	7	70.0
Menominee	1	0	0.0	1	0	0.0
Midland	10	3	30.0	10	3	30.0
Missaukee	4	4	100.0	5	5	100.0
Monroe	31	19	61.3	37	21	56.8
Montcalm	13	5	38.5	14	5	35.7
Montmorency	2	1	50.0	2	1	50.0
Muskegon	36	15	41.7	38	16	42.1

FATAL ACCIDENTS AND FATALITIES BY COUNTY WITH DRINKING INVOLVEMENT (Continued)

	ACCIDENTS			PERSONS		
COUNTY	ALL FATAL ACCIDENTS	HBD FATAL ACCIDENTS	PERCENT HBD	TOTAL FATALITIES	HBD FATALITIES	PERCENT HBD
Newaygo	11	5	45.5	13	5	38.5
Oakland	120	56	46.7	129	63	48.8
Oceana	7	5	71.4	9	7	77.8
Ogemaw	5	4	80.0	5	4	80.0
Ontonagon	3	3	100.0	3	3	100.0
Osceola	8	3	37.5	9	3	33.3
Oscoda	0	0	0.0	0	0	0.0
Otsego	6	2	33.3	6	2	33.3
Ottawa	30	9	30.0	33	10	30.3
Presque Isle	2	1	50.0	2	1	50.0
Roscommon	5	4	80.0	5	4	80.0
Saginaw	30	15	50.0	31	15	48.4
St. Clair	38	12	31.6	44	14	31.8
St. Joseph	23	12	52.2	27	14	51.9
Sanilac	14	8	57.1	18	10	55.6
Schoolcraft	1	1	100.0	1	1	100.0
Shiawassee	24	12	50.0	27	15	55.6
Tuscola	20	4	20.0	24	4	16.7
VanBuren	19	10	52.6	21	11	52.4
Washtenaw	40	20	50.0	46	22	47.8
Wayne	223	90	40.4	239	96	40.2
Wexford	6	1	16.7	6	1	16.7
TOTAL	1,463	651	44.5	1,630	738	45.3

ACCIDENT EXPERIENCE BY ROADWAY TYPE

The schedule below provides a detailed breakdown of estimated vehicle mileage, accidents, death rates (deaths per 100 million vehicle miles), and accident rates (accidents per 100 million vehicle miles) for the major roadway types in Michigan.

				RATES		
STATEWIDE	*Estimated Mileage (Billions)	All Accidents	Deaths	Death Rate	Injury Accidents	Total Accidents
Limited Access Roadways...	22.4	36,293	157	0.70	42.5	162.0
U.S. & Michigan Roads.....	20.1	104,469	480	2.39	131.5	519.7
County & Local Roads.....	37.4	276,490	993	2.66	182.4	739.3
TOTALS.....	79.9	417,252	1,630	2.04	130.4	522.2

*1989 Michigan Department of Transportation figures.

ALCOHOL INVOLVEMENT IN FATAL ACCIDENTS

Knowing when alcohol-involved fatalities occur can be a major factor in deterring the effects of drunk driving. Enforcement of the laws governing drinking and driving can equate with the lessening of needless loss of life.

BY MONTH

MONTH	ACCIDENTS: All Fatal ACCIDENTS	ACCIDENTS: HBD Fatal ACCIDENTS	ACCIDENTS: PERCENT Alcohol Related	PERSONS: Total PERSONS Killed	PERSONS: Alcohol Related FATALITIES	PERSONS: PERCENT Alcohol Related
January	123	53	43.1	138	62	44.9
February	96	45	46.9	102	48	47.1
March	86	39	45.3	94	44	46.8
April	86	36	41.9	96	38	39.6
May	113	49	43.4	123	56	45.5
June	142	64	45.1	156	71	45.5
July	138	68	49.3	156	78	50.0
August	158	69	43.7	177	83	46.9
September	138	64	46.4	155	71	45.8
October	131	60	45.8	146	65	44.5
November	103	48	46.6	123	58	47.2
December	149	56	37.6	164	64	39.0
TOTAL	1,463	651	44.5	1,630	738	45.3

BY TIME OF DAY AND DAY OF WEEK

TIME		NUMBER	PER-CENT	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
12:00- 2:59A	ALL	243	16.6	14	18	20	18	35	71	67
	HBD	210	32.3	13	13	20	14	27	67	56
3:00- 5:59A	ALL	97	6.6	16	5	7	11	7	27	24
	HBD	76	11.7	10	4	5	5	6	24	22
6:00- 8:59A	ALL	120	8.2	16	22	18	23	22	13	6
	HBD	12	1.8	1	0	2	1	0	5	3
9:00-11:59A	ALL	127	8.7	20	20	17	16	24	22	8
	HBD	11	1.7	2	4	1	0	1	2	1
12:00- 2:59P	ALL	161	11.0	15	16	23	30	22	35	20
	HBD	28	4.3	0	1	4	6	3	11	3
3:00- 5:59P	ALL	236	16.1	35	26	29	34	49	38	25
	HBD	54	8.3	8	3	5	7	14	12	5
6:00- 8:59P	ALL	261	17.9	32	32	41	36	43	37	40
	HBD	120	18.4	12	14	17	17	19	19	22
9:00-11:59P	ALL	218	14.9	19	25	24	38	45	47	20
	HBD	140	21.5	12	13	13	25	32	30	15
Not Stated	ALL	0	0.0	0	0	0	0	0	0	0
	HBD	0	0.0	0	0	0	0	0	0	0
TOTALS	ALL	1,463		167	164	179	206	247	290	210
	HBD	651		58	52	67	75	102	170	127
PERCENT TOTALS	ALL		100.0	11.4	11.2	12.2	14.1	16.9	19.8	14.4
	HBD		100.0	8.9	8.0	10.3	11.5	15.7	26.1	19.5

1989 DRIVER INFORMATION

While the crash phase and post-crash phase are important for the prevention of injury and death in all age groups, the pre-crash phase is especially critical among young drivers. What are his attitudes, motivations, perceptions, and reactions behind the wheel in the critical minutes and seconds before the "point-of-no-escape"? Excessive speed and loss of control, etc., may occur at any age, but never more than among young drivers.

Effective October 6, 1980, legislation was passed which removed the requirement for a road test from students who had successfully completed a Driver Education Course.

Sex of Driver	NUMBER OF DRIVERS Total	Fatal	Injury	Prop. Damage
Male.....	444,979	1,678	112,849	330,452
Female.....	253,525	625	73,835	179,065
TOTALS.....	698,504	2,303	186,684	509,517

Age of Drivers	FATAL ACCIDENT DRIVERS 1988	1989	Percent Change	Percent 1989 Fatal Accident Involvement	*Percent Driving Population
16 years and under...	72	68	- 5.6	3.0	1.9
17 years.....	75	69	- 8.0	3.0	1.6
18 - 19 years.....	183	180	- 1.6	7.8	4.0
20 - 24 years.....	408	347	-15.0	15.0	10.8
Group Sub-total.....	738	664	-10.0	28.8	18.3
25 - 34 years.....	612	607	- 0.8	26.4	25.0
35 - 44 years.....	366	381	+ 4.1	16.5	20.4
45 - 54 years.....	217	205	- 5.5	8.9	13.1
55 - 64 years.....	164	138	-15.9	6.0	10.6
65 - 74 years.....	119	149	+25.2	6.5	8.2
75 years and over....	105	105	0.0	4.6	4.4
Not Stated.....	62	54	-12.9	2.3	-
Group Sub-total.....	1,645	1,639	- 0.4	71.2	81.7
TOTAL DRIVERS.....	2,383	2,303	- 3.4	100.0	100.0

*Based on Secretary of State driver license data.

RESIDENCE OF DRIVER

In approximately three out of four of all motor vehicle traffic accidents, and two out of three fatal accidents, one of the drivers was a local resident. This generally means he lived within 25 miles of the accident location.

RESIDENCE of DRIVERS	DRIVERS, All Accidents		DRIVERS, Fatal Accidents		DRIVERS, Injury Accidents		DRIVERS, PD Accidents	
	Number	% of Total	Number	% of Total	Number	% of Total	Number	% of Total
In County.....	495,225	70.9	1,550	67.3	137,592	73.7	356,083	69.9
Elsewhere in State..	138,265	19.8	584	25.4	37,019	19.8	100,662	19.7
Non-resident.....	12,256	1.8	79	3.4	3,181	1.7	8,996	1.8
Not Stated.....	52,758	7.5	90	3.9	8,892	4.8	43,776	8.6
TOTALS.....	698,504		2,303		186,684		509,517	

OBJECTS HIT

The summary below lists incidents in which a fixed object was struck, either as the primary object hit or as the secondary object hit (rebound).

OBJECT HIT by VEHICLE	% of Total Objects Hit	Total Objects Hit	Fatal Accidents	Personal Injury Accidents	Property Damage Accidents	Rural Accidents	Urban Accidents
Guard rail or post.....	7.5	5,221	32	1,506	3,683	3,429	1,792
Highway sign.....	10.0	6,930	51	1,500	5,379	4,032	2,898
Street light, utility pole...	11.8	8,129	52	3,155	4,922	3,084	5,045
Culvert.....	0.8	538	12	260	266	491	47
Ditch, embankment, stream....	16.9	11,657	27	3,224	8,406	9,771	1,886
Bridge pier or abutment.....	0.5	320	6	125	189	186	134
Bridge rail or deck.....	0.4	311	4	91	216	204	107
Tree.....	18.2	12,583	180	5,198	7,205	9,761	2,822
Highway or railroad signal...	0.4	298	5	74	219	96	202
Building.....	2.6	1,777	20	596	1,161	463	1,314
Mailbox.....	7.8	5,370	21	1,019	4,330	4,532	838
Fence.....	5.3	3,689	25	884	2,780	1,984	1,705
Traffic isle or curb.....	3.2	2,218	4	322	1,892	543	1,675
Concrete barrier in median...	3.9	2,720	5	1,030	1,685	559	2,161
Other on-trafficway object...	6.2	4,316	20	743	3,553	2,345	1,971
Other off-trafficway object..	3.8	2,604	16	660	1,928	1,590	1,014
Overhead fixed object.....	0.6	438	1	23	414	194	244
Not known.....	0.1	59	0	29	30	20	39
TOTALS.....	100.0	69,178	481	20,439	48,258	43,284	25,894
PERCENT TOTALS.....		100.0	0.7	29.5	69.8	62.6	37.4

REGISTRATION TRANSACTIONS
(Includes Original, Renewal, Correction, and Replacements)

	VEHICLE						OTHER			
Counties	Passenger	Commercial	Trailer	Motorcycle	Total Plates	Total Revenue	Watercraft*	Snowmobile*	Off-Road*	Moped*
Alcona	6,476	2,770	1,696	165	11,107	$ 443,776.22	2,409	600	634	70
Alger	4,318	2,480	1,123	218	8,139	325,292.03	1,916	1,022	495	77
Allegan	47,928	20,135	10,245	1,867	80,175	3,826,643.85	10,651	2,470	1,891	1,092
Alpena	18,155	7,978	4,503	454	31,090	1,406,816.21	5,229	1,514	1,117	185
Antrim	11,040	4,355	2,719	388	18,502	767,521.38	5,053	1,188	535	155
Arenac	8,449	3,873	2,252	215	14,789	672,807.80	3,547	915	927	57
Baraga	3,798	2,140	911	154	7,003	321,035.25	1,009	494	505	25
Barry	26,403	10,729	6,317	1,168	44,617	1,818,977.54	8,816	1,638	1,194	467
Bay	68,402	19,523	14,644	1,926	104,495	4,832,794.01	11,826	4,328	5,546	1,029
Benzie	7,427	2,939	1,809	253	12,428	484,820.96	3,854	834	355	106
Berrien	97,532	29,407	14,775	3,043	144,757	6,447,909.13	14,947	2,446	1,412	2,144
Branch	22,292	9,770	5,272	891	38,225	1,877,664.28	6,868	925	854	409
Calhoun	82,080	23,036	12,820	2,540	120,476	5,167,942.39	12,717	1,782	1,555	1,990
Cass	26,212	10,806	5,362	906	43,286	1,819,941.43	9,545	1,620	692	406
Charlevoix	13,167	5,379	3,067	528	22,141	973,932.15	4,585	1,450	653	288
Cheboygan	12,818	5,521	3,255	408	22,002	933,190.45	5,325	2,157	1,042	146
Chippewa	15,157	7,496	3,877	538	27,068	1,230,449.85	5,372	3,116	1,341	266
Clare	14,134	6,493	3,597	375	24,599	1,051,905.73	4,269	1,470	1,043	146
Clinton	32,254	11,970	7,111	1,118	52,453	2,338,349.93	6,059	1,993	1,561	615
Crawford	6,049	2,662	1,658	174	10,543	433,063.47	3,318	916	813	60
Delta	21,468	9,679	5,710	825	37,682	1,700,365.55	4,977	2,116	2,321	374
Dickinson	14,973	7,394	3,861	615	26,843	1,258,886.49	3,786	1,366	1,700	435
Eaton	52,661	16,541	9,919	1,735	80,856	3,696,450.61	8,808	2,050	1,999	800
Emmet	16,126	6,273	3,344	526	26,269	1,183,250.38	5,104	1,673	650	438
Genesee	262,955	65,337	38,167	6,886	373,345	16,640,254.52	36,969	9,198	10,272	4,067
Gladwin	12,603	5,509	3,304	411	21,827	915,643.60	4,271	1,205	1,135	117
Gogebic	8,924	4,365	1,987	281	15,557	680,408.87	3,009	1,160	992	100
Gd. Traverse	42,067	13,641	9,676	1,213	66,597	3,029,584.77	12,419	2,768	2,454	581
Gratiot	21,714	8,474	5,131	800	36,119	1,666,685.57	3,482	1,186	1,111	383
Hillsdale	23,382	10,351	5,149	926	39,808	1,786,015.32	4,854	929	787	465
Houghton	16,706	6,152	2,544	529	25,931	1,119,931.08	3,195	1,735	841	173
Huron	21,705	9,366	4,867	656	36,594	1,751,203.31	3,702	2,113	886	442
Ingham	169,813	37,418	19,370	4,649	231,250	10,636,695.62	18,889	3,344	3,364	3,384
Ionia	28,503	11,183	5,891	1,043	46,620	2,009,161.47	5,167	1,148	1,117	699
Iosco	17,951	6,712	4,460	497	29,620	1,245,145.90	5,901	1,368	1,395	181
Iron	7,054	3,888	1,933	266	13,141	575,500.52	3,157	853	733	75
Isabella	24,692	9,403	5,165	815	40,075	1,997,512.42	4,088	1,151	1,098	420
Jackson	86,637	26,468	14,534	2,895	130,534	6,480,431.23	16,532	2,936	2,503	1,404
Kalamazoo	134,958	32,041	18,197	3,965	189,161	8,642,615.09	20,857	2,653	2,321	2,192
Kalkaska	7,248	4,394	2,439	274	14,355	1,013,241.18	2,651	1,013	625	68
Kent	311,743	80,979	48,945	8,558	450,225	23,978,932.33	45,590	8,526	8,012	6,876
Keweenaw	890	360	185	22	1,457	57,644.47	345	112	94	7
Lake	4,565	2,154	1,189	133	8,041	308,545.48	2,398	557	462	81
Lapeer	42,569	17,404	8,506	1,629	70,108	3,030,098.07	6,463	2,384	2,549	418
Leelanau	9,979	3,675	2,605	297	16,556	689,401.70	4,735	1,051	220	212
Lenawee	53,050	18,655	9,870	1,925	83,500	3,647,679.93	9,052	3,039	1,704	1,134
Livingston	73,304	23,734	13,476	2,244	103,032	5,575,815.63	14,446	3,614	2,624	952
Luce	2,946	1,844	1,144	83	6,017	301,901.87	1,557	772	384	46
Mackinac	5,559	2,963	1,607	185	10,314	441,991.07	3,485	1,819	714	96
Macomb	496,000	84,260	48,007	9,287	637,554	30,124,495.30	50,138	12,093	12,743	6,959
Manistee	13,060	5,440	3,003	395	21,898	953,313.67	3,679	914	649	194
Marquette	36,049	14,822	6,873	1,517	59,261	2,528,507.98	8,165	3,352	2,670	497
Mason	14,450	5,821	3,329	501	24,101	1,039,954.78	4,088	716	558	248
Mecosta	17,126	7,020	3,802	499	28,447	1,243,202.05	4,746	1,060	604	207
Menominee	13,555	5,877	3,696	554	23,682	1,027,370.54	3,097	1,336	1,066	401
Midland	49,374	13,171	9,932	1,680	74,157	3,136,132.15	9,434	1,697	2,823	616
Missaukee	5,977	3,462	1,833	173	11,445	514,348.99	1,941	842	401	95
Monroe	80,753	26,070	14,355	2,826	124,004	5,685,923.19	11,510	3,696	3,625	1,961
Montcalm	28,155	11,920	6,774	1,015	47,864	2,045,349.94	6,650	1,488	1,368	889
Montmorency	5,100	2,600	1,511	120	9,331	391,441.16	2,274	1,143	434	55
Muskegon	94,488	26,152	16,563	3,706	140,909	5,994,120.78	16,142	2,946	4,000	2,328
Newaygo	20,250	9,101	5,316	751	35,418	1,458,841.45	6,255	1,447	1,268	540
Oakland	725,208	127,234	70,907	13,959	937,308	48,255,257.21	81,491	18,414	15,409	9,701
Oceana	12,072	5,819	2,617	393	20,901	904,172.05	2,783	901	728	237
Ogemaw	10,589	5,333	2,992	313	19,227	922,804.21	3,455	1,267	772	139
Ontonagon	4,683	2,605	1,278	155	8,721	368,874.54	1,410	1,007	919	34
Osceola	11,038	5,314	2,558	341	19,251	849,132.75	2,480	934	681	111
Oscoda	4,440	2,265	1,244	145	8,094	346,237.55	2,009	744	472	39
Otsego	10,578	4,723	2,555	310	18,166	908,436.21	2,911	1,355	565	82
Ottawa	108,869	30,890	23,192	3,423	166,374	7,988,354.62	20,636	4,313	4,265	3,232
Presque Island	7,696	4,080	2,200	177	14,153	628,984.24	2,798	1,226	813	89
Roscommon	13,109	4,945	3,572	355	21,981	908,672.09	6,409	3,017	989	279
Saginaw	130,994	32,205	22,190	2,847	188,236	8,672,932.87	18,909	6,236	5,320	1,549
St. Clair	90,040	27,330	14,251	2,666	134,287	6,076,264.38	14,954	3,446	3,309	1,546
St. Joseph	33,418	12,906	6,792	1,377	54,493	2,313,238.50	9,121	1,007	886	824
Sanilac	22,781	9,851	4,493	770	37,895	1,754,911.57	2,409	1,095	927	138
Schoolcraft	4,272	2,338	1,424	150	8,184	370,568.23	2,033	845	846	56
Shiawassee	40,897	14,965	8,034	1,504	65,400	2,923,563.65	6,169	2,136	2,181	730
Tuscola	31,839	13,571	7,958	1,157	54,525	2,319,916.39	5,322	2,700	2,418	413
Van Buren	36,900	14,522	6,606	1,303	59,331	2,490,836.17	8,529	1,351	1,002	882
Washtenaw	166,838	34,490	15,797	4,352	221,477	9,843,861.82	17,240	3,468	2,815	2,158
Wayne	1,233,429	193,038	93,101	20,405	1,539,973	77,454,003.86	86,652	14,643	16,045	15,069
Wexford	15,280	5,970	3,601	496	25,347	1,147,383.68	4,518	1,246	829	159
Non-Resident	55,884	19,806	17,926	229	93,845	19,755,426.17	34,662	3,057	1,790	155
Unknown County	—	—	—	—	—	—	3,751	345	538	770
TOTALS	5,666,027	1,425,735	800,470	142,061	8,034,293	—	855,954	204,200	175,538	89,713

* 1986 Michigan Department of State format change; figures reflect the number of registrations on the master file.

ANNUAL REPORT

- There were **1,630** persons killed and **154,537** persons injured in **417,252** reported motor vehicle traffic accidents in Michigan during 1989. Compared with 1988 experience, deaths decreased **4.3** percent, injuries decreased **0.8** percent, and total reported accidents showed a **1.7** percent increase.
- This year's death toll of **1,630** was the lowest recorded since the 1985 figure of 1,569.
- Some exposure factor comparisons between 1989 and 1988 show motor vehicle registrations rose **0.4** percent, vehicle mileage rose **2.8** percent, and licensed drivers increased **0.8** percent.
- With the increase in exposure factors in 1989, the death rate fell to **2.0** per 100 million miles of travel, the lowest in our reporting history.
- Urban deaths decreased **7.1** percent, injuries decreased **2.8** percent, and total accidents decreased **0.9** percent as compared to 1988.
- Rural deaths decreased **3.2** percent, injuries increased **2.0** percent, and total accidents increased **5.0** percent as compared to 1988.
- Urban areas accounted for **55** percent of all accidents and **29** percent of all traffic deaths.
- Rural areas accounted for **45** percent of all accidents and **71** percent of all traffic deaths.
- Rural areas accounted for **44** percent of all injuries while **56** percent were in urban areas.
- Pedestrian deaths decreased **64** persons from the 1988 figure. Rural pedestrian deaths were down **19** from 1988 and urban pedestrian deaths were down a total of **45** persons.
- Alcohol was involved in **44.5** percent of all fatal accidents; **45.3** percent of the 1989 traffic deaths were listed as alcohol involved facilities.
- Though the figures **reported** for restraint usage among surviving vehicle occupants is believed to be inflated, it is felt that the numbers for fatal vehicle occupants is fairly accurate. Restraint usage among fatal victims was reported to be **25.7** percent in 1989.

MOTOR VEHICLE TRAFFIC ACCIDENTS IN MICHIGAN

PERIOD YEAR - 1989

Compiled by the Michigan State Police

Col. R. T. Davis, Director

SUMMARY OF ALL REPORTED ACCIDENTS

SUMMARY INCLUDES INFORMATION AVAILABLE

STATEWIDE

TOTAL ACCIDENTS		NUMBER OF ACCIDENTS				NUMBER OF PERSONS							THIS YEAR TO DATE		
		TOTAL	FATAL	INJURY	P.D.	TOTAL OCCUP.	KILLED	INJURED	NOT INJURED	INJURED A	INJURED B	INJURED C	ACCIDENTS	KILLED	INJURED
	1. OVERTURNED	12508	146	6590	5772	18983	152	8903	9928	1958	3389	3556	12508	152	8903
	2. OTHER NON-COLLISION	2219	13	498	1708	3870	13	538	3319	138	225	175	2219	13	538
COLLISION WITH:	3. PEDESTRIAN	3810	178	3473	159	9505	180	3657	5668	1179	1311	1167	3810	180	3657
COLLISION WITH:	4. M.V. IN TRANSPORT	257877	702	70132	187043	795660	815	112443	682402	13063	25608	73772	257877	815	112443
COLLISION WITH:	5. M.V. - OTHER ROADWAY	119	4	53	62	415	6	131	278	36	38	57	119	6	131
COLLISION WITH:	6. PARKED M.V.	28391	14	2227	26150	36738	15	2842	33881	458	998	1386	28391	15	2842
COLLISION WITH:	7. RAILROAD TRAIN	279	26	120	133	418	34	179	205	75	50	54	279	34	179
COLLISION WITH:	8. PEDALCYCLIST	3518	30	2950	538	8523	31	3062	5430	580	1402	1080	3518	31	3062
COLLISION WITH:	9. ANIMAL	46112	5	970	45137	71440	5	1094	70341	120	345	629	46112	5	1094
COLLISION WITH:	10. FIXED OBJECT	60333	339	16924	43070	87036	373	21386	65277	4203	8208	8975	60333	373	21386
COLLISION WITH:	11. OTHER OBJECT	2086	6	246	1834	3176	6	302	2868	51	92	159	2086	6	302
	TOTALS	417252	1463	104183	311606	1035764	1630	154537	879597	21861	41666	91010	417252	1630	154537

ON ROADWAY ACCIDENTS		NUMBER OF ACCIDENTS				NUMBER OF PERSONS							THIS YEAR TO DATE		
		TOTAL	FATAL	INJURY	P.D.	TOTAL OCCUP.	KILLED	INJURED	NOT INJURE	INJURED A	INJURED B	INJURED C	ACCIDENTS	KILLED	INJURED
	1. OVERTURNED	1584	23	1002	559	2287	23	1267	997	309	528	430	1584	23	1267
	2. OTHER NON-COLLISION	1919	12	446	1461	3420	12	480	2928	127	209	144	1919	12	480
COLLISION WITH:	3. PEDESTRIAN	3632	171	3307	154	9088	173	3471	5444	1116	1252	1103	3632	173	3471
COLLISION WITH:	4. M.V. IN TRANSPORT	257624	700	70062	186862	794858	813	112317	681728	13038	25575	73704	257624	813	112317
COLLISION WITH:	5. M.V. - OTHER ROADWAY	119	4	53	62	415	6	131	278	36	38	57	119	6	131
COLLISION WITH:	6. PARKED M.V.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLLISION WITH:	7. RAILROAD TRAIN	274	26	119	129	411	34	178	199	75	50	53	274	34	178
COLLISION WITH:	8. PEDALCYCLIST	3368	30	2815	523	8178	31	2915	5232	556	1322	1027	3368	31	2915
COLLISION WITH:	9. ANIMAL	46040	5	962	45073	71336	5	1084	70247	118	344	622	46040	5	1084
COLLISION WITH:	10. FIXED OBJECT	2741	3	396	2342	3908	3	458	3447	70	159	229	2741	3	458
COLLISION WITH:	11. OTHER OBJECT	1975	5	217	1753	3011	5	268	2738	44	82	142	1975	5	268
	TOTALS	319276	979	79379	238918	896912	1105	122569	773238	15499	29559	77511	319276	1105	122569

OFF ROADWAY ACCIDENTS		NUMBER OF ACCIDENTS				NUMBER OF PERSONS							THIS YEAR TO DATE		
		TOTAL	FATAL	INJURY	P.D.	TOTAL OCCUP.	KILLED	INJURED	NOT INJURED	INJURED A	INJURED B	INJURED C	ACCIDENTS	KILLED	INJURED
	1. OVERTURNED	10924	123	5588	5213	16696	129	7636	8931	1649	2861	3126	10924	129	7636
	2. OTHER NON-COLLISION	300	1	52	247	450	1	58	391	11	16	31	300	1	58
COLLISION WITH:	3. PEDESTRIAN	178	7	166	5	417	7	186	224	63	59	64	178	7	186
	4. M.V. IN TRANSPORT	253	2	70	181	802	2	126	674	25	33	68	253	2	126
	5. M.V.-OTHER ROADWAY	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6. PARKED M.V.	28391	14	2227	26150	36738	15	2842	33881	458	998	1386	28391	15	2842
	7. RAILROAD TRAIN	5	0	1	4	7	0	1	6	0	0	1	5	0	1
	8. PEDALCYCLIST	150	0	135	15	345	0	147	198	14	80	53	150	0	147
	9. ANIMAL	72	0	8	64	104	0	10	94	2	1	7	72	0	10
	10. FIXED OBJECT	57592	336	16528	40728	83128	370	20928	61830	4133	8049	8746	57592	370	20928
	11. OTHER OBJECT	111	1	29	81	165	1	34	130	7	10	17	111	1	34
	TOTALS	97976	484	24804	72688	138852	525	31968	106359	6362	12107	13499	97976	525	31968

ROAD SURFACE	NUMBER OF ACCIDENTS			
	TOTAL	FATAL	INJURY	P.D.
DRY	261089	1060	66898	193131
WET	77898	209	21080	56609
SNOWY/ICY	75398	184	15503	59711
OTHER	2867	10	702	2155
TOTAL	417252	1463	104183	311606

LIGHT CONDITION	NUMBER OF ACCIDENTS			
	TOTAL	FATAL	INJURY	P.D.
DAYLIGHT	258420	672	67326	190422
DAWN/DUSK	22604	74	4844	17686
DARKNESS/LIGHTS	38026	191	11253	26582
DARKNESS/NO LIGHTS	96880	525	20584	75771
NOT STATED	1322	1	176	1145
TOTAL	417252	1463	104183	311606

AGE	NUMBER OF PERSONS KILLED									
	TOTAL	MALE	FEMALE	DRIVER	PASS.	PED.	PEDAL/ CYCLE	M/CYCLE	FARM	OTHER
0 - 4	43	27	16	0	33	10	0	0	0	0
5 - 9	42	27	15	1	19	16	6	0	0	0
10 - 14	44	28	16	1	21	9	10	3	0	0
15 - 19	241	157	84	116	95	15	4	11	0	0
20 - 24	213	159	54	141	42	17	2	8	0	3
25 - 34	359	250	109	221	79	29	3	25	2	0
35 - 44	199	127	72	117	37	27	1	16	1	0
45 - 54	129	82	47	80	25	16	1	7	0	0
55 - 64	92	61	31	56	18	15	2	1	0	0
65 - 74	128	69	59	88	28	8	1	0	1	2
75 & Over	140	66	74	71	39	28	2	0	0	0
Not Stated	0	0	0	0	0	0	0	0	0	0
TOTAL	1630	1053	577	892	436	190	32	71	4	5

AGE	NUMBER OF PERSONS INJURED									
	TOTAL	MALE	FEMALE	DRIVER	PASS.	PED.	PEDAL/ CYCLE	M/CYCLE	FARM	OTHER
0 - 4	3349	1776	1573	32	3018	224	61	5	0	9
5 - 9	4855	2601	2254	32	3564	651	576	18	1	13
10 - 14	5783	2951	2832	141	3834	566	1029	168	4	41
15 - 19	27510	13493	14017	15439	10211	475	492	749	6	138
20 - 24	23063	12038	11025	15963	5613	340	275	701	1	170
25 - 34	34534	17848	16686	25713	6599	614	303	983	8	314
35 - 44	21818	10173	11645	16778	3784	419	119	517	10	191
45 - 54	12361	5668	6693	9391	2377	223	62	183	6	119
55 - 64	8910	4004	4906	6472	2076	179	43	72	3	65
65 - 74	6459	2729	3730	4280	1956	135	25	21	3	39
75 & Over	3505	1464	2041	2140	1229	104	10	8	1	13
Not Stated	2390	1139	1251	1384	815	60	23	57	1	50
TOTAL	154537	75884	78653	97765	45076	3990	3018	3482	44	1162

CODE OF INJURY

A — INCAPACITATING INJURY

Any injury other than fatal which prevents normal activities and generally requires hospitalization.

B — NON-INCAPACITATING INJURY

Any injury not incapacitating but evident to others at the scene.

C — POSSIBLE INJURY

No visible injury but complaint of pain or momentary inconsciousness.

TS-1 (PART 2) (Rev. 3-85)

STATEWIDE

MUNICIPALITIES	NUMBER OF PERSONS											THIS YEAR TO DATE			
		KILLED			INJURED			INJURY SEVERITY				ON ROADWAY		OFF ROADWAY	
	TOTAL OCCUP.	TOTAL	ON ROADWAY	OFF ROADWAY	TOTAL	ON ROADWAY	OFF ROADWAY	A	B	C	NOT INJURED	KILLED	INJURED	KILLED	INJURED
1. TOWNSHIPS	394287	1146	741	405	64699	43400	21299	11783	19717	33199	328442	741	43400	405	21299
2. UNDER 1,000	7344	5	4	1	386	678	208	173	279	434	6453	4	678	1	208
3. 1,000 - 2,500	20467	9	9	0	2286	1896	390	348	693	1245	18172	9	1896	0	390
4. 2,500 - 5,000	29660	15	11	4	3373	2917	456	511	910	1952	26272	11	2917	4	456
5. 5,000 - 10,000	36793	26	18	8	4227	3718	509	559	1266	2402	32540	18	3718	8	509
6. 10,000 - 25,000	77944	47	40	7	9779	8581	1198	1288	2459	6032	68118	40	8581	7	1198
7. 25,000 - 50,000	108343	75	59	16	14506	12849	1657	1583	3709	9214	93762	59	12849	16	1657
8. 50,000 - 100,000	134234	96	78	18	20026	17972	2054	1895	4770	13361	114112	78	17972	18	2054
9. 100,000 - 250,000	105594	85	64	21	14853	13116	1737	1348	3759	9746	90656	64	13116	21	1737
10. 250,000 OR MORE	121098	126	81	45	19902	17442	2460	2373	4104	13425	101070	81	17442	45	2460
TOTALS	1035764	1630	1105	525	154537	122569	31968	21861	41666	91010	879597	1105	122569	525	31968

MUNICIPALITIES	NUMBER OF ACCIDENTS												THIS YEAR TO DATE			
	ALL ACCIDENTS				ON ROADWAY				OFF ROADWAY							
	TOTAL	FATAL	INJURY	P.D.	TOTAL	FATAL	INJURY	P.D.	TOTAL	FATAL	INJURY	P.D.	TOTAL	FATAL	INJURY	P.D.
1. TOWNSHIPS	176792	1009	42453	133330	125688	637	26181	98870	51104	372	16272	34460	176792	1009	42453	133330
2. UNDER 1,000	2981	4	627	2350	2070	3	462	1605	911	1	165	745	2981	4	627	2350
3. 1,000 - 2,500	7820	9	1606	6205	5946	9	1281	4656	1874	0	325	1549	7820	9	1606	6205
4. 2,500 - 5,000	11075	14	2376	8685	8789	10	2009	6770	2286	4	367	1915	11075	14	2376	8685
5. 5,000 - 10,000	13770	24	2958	10788	10846	16	2534	8296	2924	8	424	2492	13770	24	2958	10788
6. 10,000 - 25,000	29521	45	6936	22540	23624	38	5982	17604	5897	7	954	4936	29521	45	6936	22540
7. 25,000 - 50,000	40895	73	10046	30776	32999	58	8701	24240	7896	15	1345	6536	40895	73	10046	30776
8. 50,000 - 100,000	49138	89	13679	35370	40521	72	12048	28401	8617	17	1631	6969	49138	89	13679	35370
9. 100,000 - 250,000	38896	79	10306	28511	31999	58	8894	23047	6897	21	1412	5464	38896	79	10306	28511
10. 250,000 OR MORE	46364	117	13196	33051	36794	78	11287	25429	9570	39	1909	7622	46364	117	13196	33051
TOTALS	417252	1463	104183	311606	319276	979	79379	239918	97976	484	24804	72688	417252	1463	104183	311606

CLASS OF TRAFFICWAY	NUMBER OF PERSONS											THIS YEAR TO DATE			
		KILLED			INJURED			INJURY SEVERITY				ON ROADWAY		OFF ROADWAY	
	TOTAL OCCUP.	TOTAL	ON ROADWAY	OFF ROADWAY	TOTAL	ON ROADWAY	OFF ROADWAY	A	B	C	NOT INJURED	KILLED	INJURED	KILLED	INJURED
1. INTERSTATE SYSTEM	68846	129	71	58	10654	6994	3660	1456	2841	6357	58063	71	6994	58	3660
2. OTHER FULL CONTROL	18446	28	9	19	3002	1893	1109	452	774	1776	15416	9	1893	19	1109
3. OTHER U.S. ROUTE	78961	142	123	19	11182	9608	1574	1614	2836	6732	67637	123	9608	19	1574
4. OTHER STATE M ROUTES	201868	338	273	65	29726	26238	3488	4291	7386	18049	171804	273	26238	65	3488
5. OTHER MAJOR ART'L.	39109	36	30	6	5157	4781	376	606	1301	3250	33916	30	4781	6	376
6. COUNTY ROADS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7. LOCAL STREETS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8. OTHER TRAFFICWAYS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9. LOCAL ROADS-N.K.	628534	957	599	358	94816	73055	21761	13442	26528	54846	532761	599	73055	358	21761
TOTALS	1035764	1630	1105	525	154537	122569	31968	21861	41666	91010	879597	1105	122569	525	31968

CLASS OF TRAFFICWAY	NUMBER OF ACCIDENTS												THIS YEAR TO DATE			
	ALL ACCIDENTS				ON ROADWAY				OFF ROADWAY							
	TOTAL	FATAL	INJURY	P.D.	TOTAL	FATAL	INJURY	P.D.	TOTAL	FATAL	INJURY	P.D.	TOTAL	FATAL	INJURY	P.D.
1. INTERSTATE SYSTEM	28425	110	7467	20848	19684	59	4630	14995	8741	51	2837	5853	28425	110	7467	20848
2. OTHER FULL CONTROL	7868	28	2050	5790	5417	9	1209	4199	2451	19	841	1591	7868	28	2050	5790
3. OTHER U.S. ROUTE	29502	119	7153	22230	25183	103	5943	19137	4319	16	1210	3093	29502	119	7153	22230
4. OTHER STATE M ROUTES	74967	299	19280	55388	65444	237	16565	48642	9523	62	2715	6746	74967	299	19280	55388
5. OTHER MAJOR ART'L.	13667	32	3474	10161	12223	26	3173	9024	1444	6	301	1137	13667	32	3474	10161
6. COUNTY ROADS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7. LOCAL STREETS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8. OTHER TRAFFICWAYS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9. LOCAL ROADS – N.K.	262823	875	64759	197189	191325	545	47859	142921	71498	330	16900	54268	262823	875	64759	197189
TOTALS	417252	1463	104183	311606	319276	979	79379	238919	97976	484	24804	72698	417252	1463	104183	311606

PEDESTRIAN ACCIDENTS	ALL ACCIDENTS			FATAL			INJURY			PROPERTY DAMAGE		
	TOTAL	AT INTER.	NOT AT INTER.	TOTAL	AT INTER.	NOT AT INTER.	TOTAL	AT INTER.	NOT AT INTER.	TOTAL	AT INTER.	NOT AT INTER.
1. CAR GOING STRAIGHT	3102	1390	1712	169	42	127	2812	1283	1529	121	65	56
2. CAR TURNING RIGHT	231	208	23	4	4	0	211	189	23	16	16	0
3. CAR TURNING LEFT	297	257	40	4	4	0	279	243	36	14	10	4
4. CAR BACKING	137	35	102	0	0	0	132	32	100	5	3	2
5. ALL OTHERS	27	9	18	1	0	1	26	9	17	0	0	0
6. NOT STATED	16	5	11	0	0	0	13	3	10	3	2	1
TOTALS	3810	1904	1906	178	50	128	3473	1758	1715	159	96	63

PEDESTRIAN ACTIONS BY AGE	PEDESTRIANS KILLED	AGE OF PEDESTRIANS KILLED AND INJURED									
		TOTAL	0 TO 4	5 TO 9	10 TO 14	15 TO 19	20 TO 24	25 TO 44	45 TO 64	65 & OLDER	NOT STATED
1a. CROSSING AT INTERSECTION OR IN CROSSWALK	38	1864	78	307	295	212	143	446	205	156	22
1b. CROSSING NOT AT INTERSECTION OR IN CROSSWALK	86	1121	123	307	189	85	70	189	83	64	11
2a. WALKING IN ROADWAY – WITH TRAFFIC	19	120	1	4	11	31	16	42	10	4	1
2b. WALKING IN ROADWAY – AGAINST TRAFFIC	2	21	0	0	2	6	4	5	0	3	1
3. STANDING IN ROADWAY	17	187	6	6	7	30	25	80	23	6	4
4. PUSHING OR WORKING ON VEHICLE IN ROADWAY	1	92	1	0	2	13	9	50	11	3	3
5. OTHER WORKING IN ROADWAY	2	43	0	0	0	1	2	29	10	1	0
6. PLAYING IN ROADWAY	0	24	3	8	5	4	1	2	0	0	1
7. OTHER IN ROADWAY	12	263	4	13	16	48	36	102	32	5	7
8. NOT IN ROADWAY	7	401	16	21	43	50	48	130	55	29	9
9. NOT STATED	6	44	2	1	5	10	3	14	4	4	1
TOTALS	190	4180	234	667	575	490	357	1089	433	275	60

TS-1 (PART 2)

STATEWIDE

	TWO MOTOR VEHICLE ACCIDENTS	TOTAL	FATAL	INJURY	P.D.
AT INTERSECTION	1. ENTERING AT ANGLE	55992	256	17754	37982
	2a. FROM SAME DIRECTION (both going straight)	14176	3	2597	11576
	2b. SAME – ONE TURN, ONE STRAIGHT	11894	6	1994	9894
	2c. SAME–ONE STOPPED	35286	4	10085	25197
	2d. SAME–ALL OTHERS	2325	0	120	2205
	3a. FROM OPP. DIRECTION (both going straight)	2505	22	858	1625
	3b. SAME–ONE LEFT TURN, ONE STRAIGHT	17952	49	6774	11129
	3c. SAME–ALL OTHERS	950	1	137	812
	4. NOT STATED	6912	1	555	6356
	TOTALS	147992	342	40874	106776

	TWO MOTOR VEHICLE ACCIDENTS	TOTAL	FATAL	INJURY	P.D.
NOT AT INTERSECTION	1. GOING OPP. DIRECTION (both going straight)	8915	245	3289	5381
	2. GOING SAME DIRECTION (both moving)	33363	50	7380	25933
	3a. ONE CAR PARKED	21479	13	1672	19794
	3b. ONE CAR STOPPED IN TRAFFIC	26795	22	8233	18540
	4a. ONE CAR ENTERING PARKED POS.	69	0	5	64
	4b. ONE CAR LEAVING PARKED POS.	936	0	59	877
	5a. ONE CAR ENTER. DRIVEWAY ACCESS	21210	28	6028	15154
	5b. ONE CAR LEAVING DRIVEWAY ACCESS	24079	19	4518	19542
	6. ALL OTHERS/NOT STATED	1549	1	354	1194
	TOTALS	138395	378	31538	106479

		ALL OTHER ACCIDENTS	TOTAL	FATAL	INJURY	P.D.
AT INTER.	COLLISION WITH:	1. OTHER ROAD VEH., OR RR TRAIN	2113	15	1694	404
		2. FIXED OBJECT	14488	45	3548	10895
		3. OTHER OBJECT OR ANIMAL	1257	0	71	1186
		4. OVERTURNING	1268	10	711	547
		5. OTHER NONCOLLISION	400	5	161	234
NOT AT INTER.	COLLISION WITH:	6. OTHER ROAD VEH., OR RR TRAIN	1684	41	1376	267
		7. FIXED OBJECT	45845	294	13376	32175
		8. OTHER OBJECT OR ANIMAL	46941	11	1145	45785
		9. OVERTURNING	11240	136	5879	5225
		10. OTHER NONCOLLISION	1818	8	337	1473
		11. NOT STATED	1	0	0	1
		TOTALS	127055	565	28298	98192

HAZARDOUS ACTION *	NUMBER OF TRAFFIC UNITS			
	TOTAL	FATAL	INJURY	P.D.
1. NO VIOLATION	344804	1083	91371	252350
2. SPEED TOO FAST	44021	399	14471	29151
3. SPEED TOO SLOW	200	0	83	117
4. DISREGARD CONTROL/ROW	91499	470	31940	59089
5. WRONG WAY	579	11	235	333
6. LEFT CENTER/IMPROPER PASS/LANE	32612	211	6158	26243
7. IMPROPER TURN/SIGNAL	14838	14	2853	11971
8. IMPROPER BACKING/START	17877	2	894	16981
9. FOLLOWING/UNABLE TO STOP	150892	281	42998	107613
10. OTHER/NOT KNOWN	9155	75	2686	6394
11.				
12.				
13.				
14.				
TOTALS	706477	2546	193689	510242

CONTRIBUTING CIRCUMSTANCE *	NUMBER OF TRAFFIC UNITS			
	TOTAL	FATAL	INJURY	P.D.
1. NONE	329621	993	87454	241174
2. OUIL/DRUGS	12454	456	5720	6278
3. RECKLESS/CARELESS	9095	84	4655	4356
4. INATTENTION/III/ETC.	4398	12	1829	2557
5. VIOLATION LICENSE RESTRICTION	44	0	15	29
6. OBSCURED VISION	7404	18	2248	5138
7. DEFECTIVE EQUIPMENT	5069	11	1452	3606
8. LOST CONTROL/LOAD/WIND	250	1	75	174
9. SKIDDING	29710	61	7482	22167
10. OTHER/NOT KNOWN	308432	910	82759	224763
11.				
12.				
13.				
14.				
TOTALS	706477	2546	193689	510242

* Includes pedestrians and drivers

MANNER OF TWO MOTOR VEHICLE COLLISION	TOTAL	FATAL	INJURY	P.D.
1. HEAD ON	10426	266	3911	6249
2. REAR END	43272	45	9347	33880
3. SIDESWIPE - MEETING	165	0	19	146
4. SIDESWIPE - PASSING	1407	1	98	1308
5. ANGLE	37075	218	13787	23070
6. BACKED INTO	4110	1	242	3867
7. ALL OTHERS	189854	189	44995	144670
8. NOT STATED	78	0	13	65
TOTALS	286387	720	72412	213255

TYPE OF VEHICLE	TOTAL	FATAL	INJURY	P.D.
1. PASSENGER CAR	540475	1647	150238	388590
2. PASSENGER CAR AND TRAILER	2837	7	682	2148
3. TRUCK OR TRUCK TRACTOR	96016	382	22576	73058
4. TRUCK TRACTOR AND SEMI-TRAILER	10691	105	2299	8287
5. OTHER TRUCK COMBINATION	3144	19	691	2434
6. FARM TRACTOR AND/OR FARM EQUIP.	304	7	85	212
7. BUS	1173	9	318	846
8. SCHOOL BUS	1622	4	299	1319
9. MOTORCYCLE/MOTOR SCOOTER	4042	74	3209	759
10. OTHER/NOT STATED	39095	51	6378	32666
TOTALS	699399	2305	186775	510319

DRINKING CONDITION DRIVERS	NUMBER OF DRIVERS			
	TOTAL	FATAL	INJURY	P.D.
1. HAD BEEN DRINKING	34641	651	15806	18184
2. NOT KNOWN IF DRINKING	61389	58	10528	50803
3. HAD NOT BEEN DRINKING	602474	1594	160350	440530
TOTALS	698504	2303	186684	509517

DRINKING IN ACCIDENT	NUMBER OF ACCIDENTS			
	TOTAL	FATAL	INJURY	P.D.
1. HAD BEEN DRINKING	33890	651	15439	17800
2. NOT KNOWN IF DRINKING	22870	7	2438	20425
3. HAD NOT BEEN DRINKING	360492	805	86306	273381
TOTALS	417252	1463	104183	311606

DRINKING CONDITION PEDESTRIAN	NUMBER OF PEDESTRIANS			
	TOTAL	FATAL	INJURY	P.D.
1. HAD BEEN DRINKING	180	60	114	6
2. NOT KNOWN IF DRINKING	3482	19	3318	145
3. HAD NOT BEEN DRINKING	712	130	565	17
TOTALS	4374	209	3997	168

TS-1 (PART 3)

AGE OF DRIVER	NUMBER OF DRIVERS			
	TOTAL	FATAL	INJURY	P.D.
1. 15 AND YOUNGER	1800	16	860	924
2. 16	20343	52	6059	14232
3. 17	24201	69	6905	17227
4. 18 TO 19	51816	180	14964	36672
5. 20 TO 24	101629	347	28832	72450
6. 25 TO 34	169057	607	46693	121757
7. 35 TO 44	113919	381	30928	82610
8. 45 TO 54	64235	205	17226	46804
9. 55 TO 64	43540	138	11812	31590
10. 65 TO 74	28510	149	7882	20479
11. 75 AND OLDER	14187	105	3972	10110
12. NOT STATED *	65267	54	10551	54662
TOTALS	698504	2303	186684	509517
H & R DRIVERS (Not Apprehended)	37850	28	5453	32369

* Includes Hit & Run Drivers

SEX OF DRIVER	TOTAL	FATAL	INJURY	P.D.
1. MALE	444979	1678	112849	330452
2. FEMALE	253525	625	73835	179065
TOTALS	698504	2303	186684	509517

RESIDENCE OF DRIVER	TOTAL	FATAL	INJURY	P.D.
1. LOCAL RESIDENT	495225	1550	137592	356083
2. RESIDING ELSEWHERE	138265	584	37019	100662
3. NON-RESIDENT	12256	79	3181	8996
4. NOT STATED	52758	90	8892	43776
TOTALS	698504	2303	186684	509517
DRIVERLESS MOVING	895	2	91	802

MILEAGE RATES	THIS YEAR TO DATE	LAST YEAR SAME PERIOD	PERCENT CHANGE
1. Motor Vehicle Traffic Deaths	1630	1704	-4.3 %
2. Estimated Motor Veh. Mileage Traveled (billions)	79.7	77.7	+2.6 %
3. Death Rate Per 100-Million-Vehicle-Miles	2.0	2.2	-9.1 %
4. Fatal Accident Rate Per 100-Million-Vehicle-Miles	1.8	1.9	-5.3 %

MOTOR VEHICLE TRAFFIC ACCIDENTS IN MICHIGAN

PERIOD YEAR - 1989

Compiled by the Michigan State Police

Col. R. T. Davis, Director

SUMMARY OF ALL REPORTED ACCIDENTS

SUMMARY INCLUDES —
INFORMATION AVAILABLE

URBAN

TOTAL ACCIDENTS		NUMBER OF ACCIDENTS				NUMBER OF PERSONS							THIS YEAR TO DATE		
		TOTAL	FATAL	INJURY	P.D.	TOTAL OCCUP.	KILLED	INJURED	NOT INJURED	INJURED A	INJURED B	INJURED C	ACCIDENTS	KILLED	INJURED
	1. OVERTURNED	1690	18	1051	621	2408	18	1303	1087	266	528	509	1690	18	1303
	2. OTHER NON-COLLISION	811	6	219	586	1395	6	241	1148	61	107	73	811	6	241
COLLISION WITH:	3. PEDESTRIAN	3016	90	2791	135	7435	90	2928	4417	905	1039	984	3016	90	2928
	4. M.V. IN TRANSPORT	174695	203	45667	128825	532342	221	70420	461701	6299	14564	49557	174695	221	70420
	5. M.V. - OTHER ROADWAY	64	0	22	42	218	0	53	165	13	18	22	64	0	53
	6. PARKED M.V.	23007	7	1655	21345	29425	8	2053	27364	304	747	1002	23007	8	2053
	7. RAILROAD TRAIN	131	8	54	69	204	11	84	109	27	28	29	131	11	84
	8. PEDALCYCLIST	2577	17	2144	416	6181	17	2209	3955	365	1029	815	2577	17	2209
	9. ANIMAL	1484	0	58	1426	2256	0	66	2190	9	22	35	1484	0	66
	10. FIXED OBJECT	21428	91	5749	15588	30674	98	7207	23369	1291	2862	3054	21428	98	7207
	11. OTHER OBJECT	756	1	87	668	1128	1	102	1025	17	33	52	756	1	102
	TOTALS	229659	441	59497	169721	613666	470	86666	526530	9557	20977	56132	229659	470	86666

ON ROADWAY ACCIDENTS		NUMBER OF ACCIDENTS				NUMBER OF PERSONS							THIS YEAR TO DATE		
		TOTAL	FATAL	INJURY	P.D.	TOTAL OCCUP.	KILLED	INJURED	NOT INJURED	INJURED A	INJURED B	INJURED C	ACCIDENTS	KILLED	INJURED
	1. OVERTURNED	561	7	387	167	777	7	459	311	104	201	154	561	7	459
	2. OTHER NON-COLLISION	733	5	206	522	1276	5	222	1049	59	101	62	733	5	222
COLLISION WITH:	3. PEDESTRIAN	2911	88	2691	132	7195	88	2818	4289	869	1009	940	2911	88	2818
	4. M.V. IN TRANSPORT	174598	203	45640	128755	532031	221	70380	461430	6297	14557	49526	174598	221	70380
	5. M.V. - OTHER ROADWAY	64	0	22	42	218	0	53	165	13	18	22	64	0	53
	6. PARKED M.V.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7. RAILROAD TRAIN	127	8	54	65	199	11	84	104	27	28	29	127	11	84
	8. PEDALCYCLIST	2460	17	2040	403	5913	17	2098	3798	356	967	775	2460	17	2098
	9. ANIMAL	1480	0	58	1422	2249	0	66	2183	9	22	35	1480	0	66
	10. FIXED OBJECT	1921	1	282	1638	2722	1	327	2394	53	113	161	1921	1	327
	11. OTHER OBJECT	717	1	75	641	1071	1	88	982	13	27	48	717	1	88
	TOTALS	185572	330	51455	133787	553651	351	76595	476705	7800	17043	51752	185572	351	76595

OFF ROADWAY ACCIDENTS		NUMBER OF ACCIDENTS				NUMBER OF PERSONS							THIS YEAR TO DATE		
		TOTAL	FATAL	INJURY	P.D.	TOTAL OCCUP.	KILLED	INJURED	NOT INJURED	INJURED A	INJURED B	INJURED C	ACCIDENTS	KILLED	INJURED
	1. OVERTURNED	1129	11	664	454	1631	11	844	776	162	327	355	1129	11	844
	2. OTHER NON-COLLISION	78	1	13	64	119	1	19	99	2	6	11	78	1	19
COLLISION WITH:	3. PEDESTRIAN	105	2	100	3	240	2	110	128	36	30	44	105	2	110
	4. M.V. IN TRANSPORT	97	0	27	70	311	0	40	271	2	7	31	97	0	40
	5. M.V.-OTHER ROADWAY	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6. PARKED M.V.	23007	7	1655	21345	29425	8	2053	27364	304	747	1002	23007	8	2053
	7. RAILROAD TRAIN	4	0	0	4	5	0	0	5	0	0	0	4	0	0
	8. PEDALCYCLIST	117	0	104	3	268	0	111	157	9	62	40	117	0	111
	9. ANIMAL	4	0	0	4	7	0	0	7	0	0	0	4	0	0
	10. FIXED OBJECT	19507	90	5467	13950	27952	97	6880	20975	1238	2749	2893	19507	97	6880
	11. OTHER OBJECT	39	0	12	27	57	0	14	43	4	6	4	39	0	14
	TOTALS	44087	111	8042	35934	60015	119	10071	49825	1757	3934	4380	44087	119	10071

ROAD SURFACE	NUMBER OF ACCIDENTS			
	TOTAL	FATAL	INJURY	P.D.
DRY	147190	325	39728	107137
WET	47977	84	13350	34543
SNOWY/ICY	33271	29	6178	27064
OTHER	1221	3	241	977
TOTAL	229659	441	59497	169721

LIGHT CONDITION	NUMBER OF ACCIDENTS			
	TOTAL	FATAL	INJURY	P.D.
DAYLIGHT	159150	202	40296	118652
DAWN/DUSK	9878	29	2536	7313
DARKNESS/LIGHTS	32051	146	9510	22395
DARKNESS/NO LIGHTS	27759	63	7045	20651
NOT STATED	821	1	110	710
TOTAL	229659	441	59497	169721

AGE	NUMBER OF PERSONS KILLED									
	TOTAL	MALE	FEMALE	DRIVER	PASS.	PED.	PEDAL/ CYCLE	M/CYCLE	FARM	OTHER
0 - 4	11	7	4	0	5	6	0	0	0	0
5 - 9	11	4	7	0	3	5	3	0	0	0
10 -14	12	10	2	0	2	4	6	0	0	0
15 -19	50	36	14	19	21	3	0	7	0	0
20 -24	50	37	13	23	17	6	2	2	0	0
25 -34	89	60	29	46	19	12	2	10	0	0
35 -44	76	51	25	39	13	15	1	8	0	0
45 -54	44	32	12	26	3	10	1	4	0	0
55 -64	34	26	8	17	5	10	1	1	0	0
65 -74	40	21	19	30	5	4	1	0	0	0
75 & Over	53	23	30	20	14	18	1	0	0	0
Not Stated	0	0	0	0	0	0	0	0	0	0
TOTAL	470	307	163	220	107	93	18	32	0	0

CODE OF INJURY

A — INCAPACITATING INJURY
Any injury other than fatal which prevents normal activities and generally requires hospitalization.

B — NON-INCAPACITATING INJURY
Any injury not incapacitating but evident to others at the scene.

C — POSSIBLE INJURY
No visible injury but complaint of pain or momentary inconsciousness.

AGE	NUMBER OF PERSONS INJURED									
	TOTAL	MALE	FEMALE	DRIVER	PASS.	PED.	PEDAL/ CYCLE	M/CYCLE	FARM	OTHER
0 - 4	1870	1001	869	17	1618	187	38	3	0	7
5 - 9	2891	1575	1316	17	1937	545	378	7	0	7
10 -14	3227	1681	1546	43	1957	422	713	75	0	17
15 -19	13385	6285	7100	7102	5104	345	377	399	1	57
20 -24	12666	6041	6625	8576	3133	258	228	386	1	84
25 -34	19902	9665	10237	14750	3734	477	257	503	0	181
35 -44	12713	5673	7040	9714	2245	339	94	214	0	107
45 -54	7283	3222	4061	5565	1367	171	40	70	0	70
55 -64	5469	2416	3053	4006	1225	138	31	32	0	37
65 -74	3878	1621	2257	2577	1137	111	20	13	0	20
75 & Over	2019	818	1201	1229	685	90	6	3	0	6
Not Stated	1363	634	729	764	476	43	15	31	0	34
TOTAL	86666	40632	46034	54360	24618	3126	2197	1736	2	627

URBAN

MUNICIPALITIES	NUMBER OF PERSONS											THIS YEAR TO DATE			
	TOTAL OCCUP.	KILLED			INJURED			INJURY SEVERITY				ON ROADWAY		OFF ROADWAY	
		TOTAL	ON ROADWAY	OFF ROADWAY	TOTAL	ON ROADWAY	OFF ROADWAY	A	B	C	NOT INJURED	KILLED	INJURED	KILLED	INJURED
1. TOWNSHIPS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2. UNDER 1,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3. 1,000 - 2,500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4. 2,500 - 5,000	29660	15	11	4	3373	2917	456	511	910	1952	26272	11	2917	4	456
5. 5,000 - 10,000	36793	26	18	8	4227	3718	509	559	1266	2402	32540	18	3718	8	509
6. 10,000 - 25,000	77944	47	40	7	9779	8581	1198	1288	2459	6032	68118	40	8581	7	1198
7. 25,000 - 50,000	108343	75	59	16	14506	12849	1657	1583	3709	9214	93762	59	12849	16	1657
8. 50,000 - 100,000	134234	96	78	18	20026	17972	2054	1895	4770	13361	114112	78	17972	18	2054
9. 100,000 - 250,000	105594	85	64	21	14853	13116	1737	1348	3759	9746	90656	64	13116	21	1737
10. 250,000 OR MORE	121098	126	81	45	19902	17442	2460	2373	4104	13425	101070	81	17442	45	2460
TOTALS	613666	470	351	119	86666	76595	10071	9557	20977	56132	526530	351	76595	119	10071

MUNICIPALITIES	NUMBER OF ACCIDENTS												THIS YEAR TO DATE			
	ALL ACCIDENTS				ON ROADWAY				OFF ROADWAY							
	TOTAL	FATAL	INJURY	P.D.	TOTAL	FATAL	INJURY	P.D.	TOTAL	FATAL	INJURY	P.D.	TOTAL	FATAL	INJURY	P.D.
1. TOWNSHIPS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2. UNDER 1,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3. 1,000 - 2,500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4. 2,500 - 5,000	11075	14	2376	8685	8789	10	2009	6770	2286	4	367	1915	11075	14	2376	8685
5. 5,000 - 10,000	13770	24	2958	10788	10846	16	2534	8296	2924	8	424	2492	13770	24	2958	10788
6. 10,000 - 25,000	29521	45	6936	22540	23624	32	5982	17604	5897	7	954	4936	29521	45	6936	22540
7. 25,000 - 50,000	40895	73	10046	30776	32999	58	8701	24240	7896	15	1345	6536	40895	73	10046	30776
8. 50,000 - 100,000	49138	89	13679	35370	40521	72	12048	28401	8617	17	1631	6969	49138	89	13679	35370
9. 100,000 - 250,000	38896	79	10306	28511	31999	58	8894	23047	6897	21	1412	5464	38896	79	10306	28511
10. 250,000 OR MORE	46364	117	13196	33051	36794	78	11287	25429	9570	39	1909	7622	46364	117	13196	33051
TOTALS	229659	441	59497	169721	185572	330	51455	133787	44087	111	8042	35934	229659	441	59497	169721

CLASS OF TRAFFICWAY	NUMBER OF PERSONS											THIS YEAR TO DATE			
	TOTAL OCCUP.	KILLED			INJURED			INJURY SEVERITY				ON ROADWAY		OFF ROADWAY	
		TOTAL	ON ROADWAY	OFF ROADWAY	TOTAL	ON ROADWAY	OFF ROADWAY	A	B	C	NOT INJURED	KILLED	INJURED	KILLED	INJURED
1. INTERSTATE SYSTEM	40555	48	24	24	6301	4627	1674	711	1580	4010	34206	24	4627	24	1674
2. OTHER FULL CONTROL	10117	10	4	6	1794	1366	428	198	408	1188	8313	4	1366	6	428
3. OTHER U.S. ROUTE	35407	21	20	1	4557	4281	276	451	1002	3104	30829	20	4281	1	276
4. OTHER STATE M ROUTES	106889	71	60	11	14958	14022	936	1603	3285	10070	91860	60	14022	11	936
5. OTHER MAJOR ART'L.	32831	23	17	6	4078	3792	286	448	996	2634	28730	17	3792	6	286
6. COUNTY ROADS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7. LOCAL STREETS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8. OTHER TRAFFICWAYS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9. LOCAL ROADS--N.K.	387867	297	226	71	54978	48507	6471	6146	13706	35126	332592	226	48507	71	6471
TOTALS	613666	470	351	119	86666	76595	10071	9557	20977	56132	526530	351	76595	119	10071

CLASS OF TRAFFICWAY	NUMBER OF ACCIDENTS												THIS YEAR TO DATE			
	ALL ACCIDENTS				ON ROADWAY				OFF ROADWAY							
	TOTAL	FATAL	INJURY	P.D.	TOTAL	FATAL	INJURY	P.D.	TOTAL	FATAL	INJURY	P.D.	TOTAL	FATAL	INJURY	P.D.
1. INTERSTATE SYSTEM	15920	43	4513	11364	11980	22	3148	8810	3940	21	1365	2554	15920	43	4513	11364
2. OTHER FULL CONTROL	3822	10	1206	2606	2880	4	865	2011	942	6	341	595	3822	10	1206	2606
3. OTHER U.S. ROUTE	12143	21	3091	9031	11119	20	2867	8232	1024	1	224	799	12143	21	3091	9031
4. OTHER STATE M ROUTES	36812	65	10125	26622	33587	54	9376	24157	3225	11	749	2465	36812	65	10125	26622
5. OTHER MAJOR ART'L.	11423	21	2815	8587	10257	15	2587	7655	1166	6	228	932	11423	21	2815	8587
6. COUNTY ROADS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7. LOCAL STREETS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8. OTHER TRAFFICWAYS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9. LOCAL ROADS – N.K.	149539	281	37747	111511	115749	215	32612	82922	33790	66	5135	28589	149539	281	37747	111511
TOTALS	229659	441	59497	169721	185572	330	51455	133787	44087	111	8042	35934	229659	441	59497	169721

PEDESTRIAN ACCIDENTS	ALL ACCIDENTS			FATAL			INJURY			PROPERTY DAMAGE		
	TOTAL	AT INTER.	NOT AT INTER.	TOTAL	AT INTER.	NOT AT INTER.	TOTAL	AT INTER.	NOT AT INTER.	TOTAL	AT INTER.	NOT AT INTER.
1. CAR GOING STRAIGHT	2393	1217	1176	82	29	53	2211	1127	1084	100	61	39
2. CAR TURNING RIGHT	216	194	22	3	3	0	198	176	22	15	15	0
3. CAR TURNING LEFT	260	230	30	4	4	0	243	217	26	13	9	4
4. CAR BACKING	109	29	80	0	0	0	105	26	79	4	3	1
5. ALL OTHERS	24	9	15	1	0	1	23	9	14	0	0	0
6. NOT STATED	14	5	9	0	0	0	11	3	8	3	2	1
TOTALS	3016	1684	1332	90	36	54	2791	1558	1233	135	90	45

PEDESTRIAN ACTIONS BY AGE	PEDESTRIANS KILLED	AGE OF PEDESTRIANS KILLED AND INJURED									
		TOTAL	0 TO 4	5 TO 9	10 TO 14	15 TO 19	20 TO 24	25 TO 44	45 TO 64	65 & OLDER	NOT STATED
1a. CROSSING AT INTERSECTION OR IN CROSSWALK	28	1637	68	270	243	178	130	409	182	138	19
1b. CROSSING NOT AT INTERSECTION OR IN CROSSWALK	42	839	101	241	128	55	55	138	66	47	8
2a. WALKING IN ROADWAY – WITH TRAFFIC	2	60	1	1	5	16	5	23	6	3	0
2b. WALKING IN ROADWAY – AGAINST TRAFFIC	1	12	0	0	1	4	2	2	0	2	1
3 . STANDING IN ROADWAY	10	139	5	4	6	21	17	62	17	3	4
4 . PUSHING OR WORKING ON VEHICLE IN ROADWAY	0	45	0	0	0	5	8	26	3	2	1
5 . OTHER WORKING IN ROADWAY	1	28	0	0	0	0	1	21	5	1	0
6 . PLAYING IN ROADWAY	0	23	3	8	5	3	1	2	0	0	1
7 . OTHER IN ROADWAY	6	166	2	10	10	37	18	66	16	3	4
8 . NOT IN ROADWAY	1	245	11	15	27	26	25	85	31	21	4
9 . NOT STATED	2	25	2	1	1	3	2	9	3	3	1
TOTALS	93	3219	193	550	426	348	264	843	329	223	43

TS-1 (PART 2)

URBAN

TWO MOTOR VEHICLE ACCIDENTS		TOTAL	FATAL	INJURY	P.D.
AT INTERSECTION	1. ENTERING AT ANGLE	40154	86	12246	27822
	2a. FROM SAME DIRECTION (both going straight)	11359	3	2017	9339
	2b. SAME – ONE TURN, ONE STRAIGHT	8558	2	1231	7325
	2c. SAME–ONE STOPPED	26113	2	7483	18628
	2d. SAME–ALL OTHERS	1697	0	90	1607
	3a. FROM OPP. DIRECTION (both going straight)	1558	10	539	1009
	3b. SAME–ONE LEFT TURN, ONE STRAIGHT	13294	29	4863	8402
	3c. SAME–ALL OTHERS	657	0	99	558
	4. NOT STATED	5983	1	478	5504
	TOTALS	109373	133	29046	80194

TWO MOTOR VEHICLE ACCIDENTS		TOTAL	FATAL	INJURY	P.D.
NOT AT INTERSECTION	1. GOING OPP. DIRECTION (both going straight)	3290	33	1100	2157
	2. GOING SAME DIRECTION (both moving)	21243	16	4595	16632
	3a. ONE CAR PARKED	17024	6	1177	15841
	3b. ONE CAR STOPPED IN TRAFFIC	18275	9	5633	12633
	4a. ONE CAR ENTERING PARKED POS.	51	0	3	48
	4b. ONE CAR LEAVING PARKED POS.	806	0	48	758
	5a. ONE CAR ENTER. DRIVEWAY ACCESS	11520	8	2945	8567
	5b. ONE CAR LEAVING DRIVEWAY ACCESS	15263	5	2612	12646
	6. ALL OTHERS/NOT STATED	921	0	185	736
	TOTALS	88393	77	18298	70018

ALL OTHER ACCIDENTS			TOTAL	FATAL	INJURY	P.D.
AT INTER.	COLLISION WITH:	1. OTHER ROAD VEH., OR RR TRAIN	1671	12	1337	322
		2. FIXED OBJECT	7849	24	1885	5940
		3. OTHER OBJECT OR ANIMAL	351	0	25	326
	4. OVERTURNING		378	3	253	122
	5. OTHER NONCOLLISION		223	4	103	116
NOT AT INTER.	COLLISION WITH:	6. OTHER ROAD VEH., OR RR TRAIN	1037	13	861	163
		7. FIXED OBJECT	13579	67	3864	9648
		8. OTHER OBJECT OR ANIMAL	1889	1	120	1768
	9. OVERTURNING		1312	15	798	499
	10. OTHER NONCOLLISION		588	2	116	470
	11. NOT STATED		0	0	0	0
	TOTALS		28877	141	9362	19374

HAZARDOUS ACTION *	NUMBER OF TRAFFIC UNITS			
	TOTAL	FATAL	INJURY	P.D.
1. NO VIOLATION	199203	375	59033	139795
2. SPEED TOO FAST	16744	98	4792	11854
3. SPEED TOO SLOW	96	0	35	61
4. DISREGARD CONTROL/ROW	65029	197	22205	42627
5. WRONG WAY	449	3	190	256
6. LEFT CENTER/IMPROPER PASS/LANE	22144	45	3437	18662
7. IMPROPER TURN/SIGNAL	10540	7	1860	8673
8. IMPROPER BACKING/START	13671	0	664	13007
9. FOLLOWING/UNABLE TO STOP	93655	67	25421	68167
10. OTHER/NOT KNOWN	5406	39	1541	3826
11.				
12.				
13.				
14.				
TOTALS	426937	831	119178	306928

CONTRIBUTING CIRCUMSTANCE *	NUMBER OF TRAFFIC UNITS			
	TOTAL	FATAL	INJURY	P.D.
1. NONE	191573	351	57033	134189
2. OUIL/DRUGS	6018	124	2687	3207
3. RECKLESS/CARELESS	3808	31	1890	1887
4. INATTENTION/III/ETC.	2287	6	892	1389
5. VIOLATION LICENSE RESTRICTION	19	0	6	13
6. OBSCURED VISION	4337	5	1281	3051
7. DEFECTIVE EQUIPMENT	2432	1	736	1695
8. LOST CONTROL/LOAD/WIND	75	0	20	55
9. SKIDDING	13154	16	2950	10188
10. OTHER/NOT KNOWN	203234	297	51683	151254
11.				
12.				
13.				
14.				
TOTALS	426937	831	119178	306928

* Includes pedestrians and drivers

MANNER OF TWO MOTOR VEHICLE COLLISION	TOTAL	FATAL	INJURY	P.D.
1. HEAD ON	4197	43	1488	2666
2. REAR END	29579	18	6207	23354
3. SIDESWIPE - MEETING	88	0	3	85
4. SIDESWIPE - PASSING	1194	0	79	1115
5. ANGLE	27720	73	9820	17827
6. BACKED INTO	2820	0	168	2652
7. ALL OTHERS	132117	76	29572	102469
8. NOT STATED	51	0	7	44
TOTALS	197766	210	47344	150212

TYPE OF VEHICLE	TOTAL	FATAL	INJURY	P.D.
1. PASSENGER CAR	334086	514	94596	238976
2. PASSENGER CAR AND TRAILER	1412	1	346	1065
3. TRUCK OR TRUCK TRACTOR	45900	97	10941	34862
4. TRUCK TRACTOR AND SEMI-TRAILER	5778	33	1096	4649
5. OTHER TRUCK COMBINATION	1325	4	288	1033
6. FARM TRACTOR AND/OR FARM EQUIP.	27	0	3	24
7. BUS	1004	7	277	720
8. SCHOOL BUS	923	0	153	770
9. MOTORCYCLE/MOTOR SCOOTER	2134	34	1639	461
10. OTHER/NOT STATED	29005	18	4592	24395
TOTALS	421594	708	113931	306955

DRINKING CONDITION DRIVERS	NUMBER OF DRIVERS			
	TOTAL	FATAL	INJURY	P.D.
1. HAD BEEN DRINKING	16517	167	7310	9040
2. NOT KNOWN IF DRINKING	48682	30	8547	40105
3. HAD NOT BEEN DRINKING	355734	510	98008	257216
TOTALS	420933	707	113865	306361

DRINKING IN ACCIDENT	NUMBER OF ACCIDENTS			
	TOTAL	FATAL	INJURY	P.D.
1. HAD BEEN DRINKING	16154	174	7177	8803
2. NOT KNOWN IF DRINKING	17802	1	1962	15839
3. HAD NOT BEEN DRINKING	195703	266	50358	145079
TOTALS	229659	441	59497	169721

DRINKING CONDITION PEDESTRIAN	NUMBER OF PEDESTRIANS			
	TOTAL	FATAL	INJURY	P.D.
1. HAD BEEN DRINKING	127	23	100	4
2. NOT KNOWN IF DRINKING	2677	10	2546	121
3. HAD NOT BEEN DRINKING	572	71	484	17
TOTALS	3376	104	3130	142

TS-1 (PART 3)

AGE OF DRIVER	NUMBER OF DRIVERS			
	TOTAL	FATAL	INJURY	P.D.
1. 15 AND YOUNGER	888	5	366	517
2. 16	10510	8	2932	7570
3. 17	13075	18	3583	9474
4. 18 TO 19	29129	48	8305	20776
5. 20 TO 24	59884	99	17129	42656
6. 25 TO 34	100072	175	28603	71294
7. 35 TO 44	65971	121	18885	46965
8. 45 TO 54	37206	69	10692	26445
9. 55 TO 64	26924	48	7680	19196
10. 65 TO 74	18218	53	5011	13154
11. 75 AND OLDER	9073	30	2411	6632
12. NOT STATED *	49983	33	8268	41682
TOTALS	420933	707	113865	306361
H & R DRIVERS (Not Apprehended)	29476	19	4513	24944

* Includes Hit & Run Drivers

SEX OF DRIVER	TOTAL	FATAL	INJURY	P.D.
1. MALE	265696	532	68049	197115
2. FEMALE	155237	175	45816	109246
TOTALS	420933	707	113865	306361

RESIDENCE OF DRIVER	TOTAL	FATAL	INJURY	P.D.
1. LOCAL RESIDENT	306453	546	86559	219348
2. RESIDING ELSEWHERE	69279	109	19193	49977
3. NON-RESIDENT	5669	17	1384	4268
4. NOT STATED	39532	35	6729	32768
TOTALS	420933	707	113865	306361
DRIVERLESS MOVING	661	1	66	594

MILEAGE RATES	THIS YEAR TO DATE	LAST YEAR SAME PERIOD	PERCENT CHANGE
1. Motor Vehicle Traffic Deaths			%
2. Estimated Motor Veh. Mileage Traveled (billions)			%
3. Death Rate Per 100-Million-Vehicle-Miles			%
4. Fatal Accident Rate Per 100-Million-Vehicle-Miles			%

TRAFFIC ACCIDENT SUMMARY FOR CITIES
1989

CITIES	Total Accidents	Fatal Accidents	Personal Injury Accidents	Property Damage Accidents	Persons Killed	Persons Injured
Adrian	1,093	2	253	838	2	366
Albion	285	0	53	232	0	67
Algonac	79	0	23	56	0	30
Allegan	168	1	31	136	1	40
Allen Park	1,318	4	344	970	4	503
Alma	341	0	76	265	0	114
Alpena	494	0	122	372	0	175
Ann Arbor	4,644	4	1,067	3,573	5	1,461
Armada	25	0	6	19	0	9
Auburn Hills	1,445	2	386	1,057	4	593
Bad Axe	143	0	30	113	0	44
Battle Creek	2,823	7	637	2,179	8	889
Bay City	1,752	5	394	1,353	5	547
Belding	147	0	23	124	0	33
Benton Harbor	677	0	123	554	0	153
Berkley	599	2	169	428	2	245
Bessemer	56	0	8	48	0	8
Beverly Hills	368	0	100	268	0	139
Big Rapids	725	0	154	571	0	199
Birmingham	1,193	0	192	1,001	0	249
Blissfield	84	1	19	64	1	31
Bloomfield Hills	352	0	62	290	0	91
Boyne City	136	0	21	115	0	31
Brighton	469	0	90	379	0	135
Buchanan	149	0	25	124	0	33
Burton	1,094	5	360	729	5	575
Cadillac	516	0	75	441	0	103
Caro	252	0	52	200	0	79
Cassopolis	59	0	8	51	0	18
Center Line	502	2	127	373	2	189
Charlevoix	169	0	26	143	0	35
Charlotte	374	2	70	302	2	104
Cheboygan	66	0	44	22	0	63
Chelsea	162	0	29	133	0	40
Chesaning	141	0	24	117	0	34
Clare	175	0	26	149	0	40
Clawson	532	2	119	411	2	166
Clio	116	0	29	87	0	37
Coldwater	524	0	109	415	0	169
Corunna	109	0	32	77	0	52
Davison	167	0	36	131	0	48
Dearborn	5,118	8	1,411	3,699	8	1,987
Dearborn Heights	2,239	8	610	1,621	8	941
Detroit	46,364	117	13,196	33,051	126	19,902
Dowagiac	299	1	54	244	1	72
Durand	90	0	24	66	0	33
East Detroit	1,195	1	331	863	1	452
East Grand Rapids	221	1	29	191	1	38
East Jordan	13	0	4	9	0	6
East Lansing	1,445	0	366	1,079	0	490
Eaton Rapids	133	0	23	110	0	28
Ecorse	499	0	92	407	0	119
Escanaba	857	0	180	677	0	253
Essexville	102	0	16	86	0	22
Farmington	486	2	103	381	3	138
Farmington Hills	3,140	8	964	2,168	8	1,412
Fenton	435	3	121	311	5	157
Ferndale	548	2	271	275	2	397
Flat Rock	243	1	76	166	1	114
Flint	6,538	19	1,820	4,699	21	2,794
Flushing	153	0	36	117	0	54
Frankenmuth	154	0	36	118	0	63

TRAFFIC ACCIDENT SUMMARY FOR CITIES (Continued)

CITIES	Total Accidents	Fatal Accidents	Personal Injury Accidents	Property Damage Accidents	Persons Killed	Persons Injured
Franklin	75	0	17	58	0	21
Fraser	845	0	225	620	0	308
Fremont	217	1	51	165	1	74
Garden City	1,231	0	378	853	0	602
Gaylord	246	0	37	209	0	47
Gibralter	80	0	23	57	0	33
Gladstone	192	1	40	151	1	66
Grand Blanc	205	1	42	162	1	59
Grand Haven	797	0	152	645	0	229
Grand Ledge	162	1	39	122	1	56
Grand Rapids	10,068	17	2,348	7,703	17	3,195
Grandville	793	2	190	601	2	297
Grayling	182	0	33	149	0	45
Greenville	441	0	85	356	0	119
Grosse Pointe	15	0	1	14	0	1
Grosse Pointe Farms	263	0	59	204	0	88
Grosse Pointe Park	297	0	47	250	0	57
Grosse Pointe Shores	51	0	12	39	0	14
Grosse Pointe Woods	269	0	84	185	0	109
Hamtramck	917	1	164	752	1	218
Hancock	245	1	27	217	1	39
Harbor Springs	51	0	7	44	0	8
Harper Woods	491	0	138	353	0	204
Harrison	96	0	11	85	0	23
Hartford	52	0	7	45	0	7
Hastings	321	1	70	250	1	91
Hazel Park	1,332	3	340	989	3	498
Highland Park	1,175	3	323	849	3	481
Hillsdale	543	1	86	456	1	125
Holland	1,193	2	297	894	2	453
Holly	165	0	45	120	0	73
Houghton	358	0	60	298	0	97
Howell	399	0	99	300	0	138
Hudson	2	0	1	1	0	1
Hudsonville	108	0	22	86	0	32
Huntington Woods	152	1	50	101	1	76
Inkster	989	3	224	762	3	338
Ionia	301	0	69	232	0	98
Iron Mountain	347	1	99	247	1	129
Iron River	112	0	20	92	0	24
Ironwood	350	2	62	286	2	85
Ishpeming	302	1	60	241	1	89
Ithaca	55	0	13	42	0	19
Jackson	2,522	5	583	1,934	5	796
Kalamazoo	4,694	3	933	3,758	3	1,260
Keego Harbor	169	0	43	126	0	65
Kentwood	1,722	5	457	1,260	6	659
Kingsford	136	1	22	113	1	29
Lake Orion	128	1	22	105	1	31
L'Anse	89	0	12	77	0	20
Lansing	5,870	10	1,542	4,318	10	2,184
Lapeer	559	0	128	431	0	188
Lathrup Village	334	1	71	262	1	103
Laurium	39	0	6	33	0	6
Lincoln Park	1,829	4	466	1,359	4	667
Linden	44	0	7	37	0	8
Livonia	5,336	10	1,378	3,948	12	2,009
Lowell	204	0	51	153	0	79
Ludington	314	1	38	275	1	50
Madison Heights	1,862	0	519	1,343	0	763
Manchester	39	0	7	32	0	11
Manistee	320	1	58	261	1	79
Manistique	129	0	19	110	0	28

MOTOR VEHICLE TRAFFIC ACCIDENTS IN MICHIGAN

PERIOD YEAR - 1989

Compiled by the Michigan State Police

Col. R. T. Davis, Director

SUMMARY OF ALL REPORTED ACCIDENTS

SUMMARY INCLUDES INFORMATION AVAILABLE _____

RURAL

TOTAL ACCIDENTS		NUMBER OF ACCIDENTS				NUMBER OF PERSONS							THIS YEAR TO DATE		
		TOTAL	FATAL	INJURY	P.D.	TOTAL OCCUP.	KILLED	INJURED	NOT INJURED	INJURED A	INJURED B	INJURED C	ACCIDENTS	KILLED	INJURED
	1. OVERTURNED	10818	128	5539	5151	16575	134	7600	8841	1692	2861	3047	10818	134	7600
	2. OTHER NON-COLLISION	1408	7	279	1122	2475	7	297	2171	77	118	102	1408	7	297
COLLISION WITH:	3. PEDESTRIAN	794	88	682	24	2070	90	729	1251	274	272	183	794	90	729
	4. M.V. IN TRANSPORT	83182	499	24465	58218	263318	594	42023	220701	6764	11044	24215	83182	594	42023
	5. M.V. - OTHER ROADWAY	55	4	31	20	197	6	78	113	23	20	35	55	6	78
	6. PARKED M.V.	5384	7	572	4805	7313	7	789	6517	154	251	384	5384	7	789
	7. RAILROAD TRAIN	148	18	66	64	214	23	95	96	48	22	25	148	23	95
	8. PEDALCYCLIST	941	13	806	122	2342	14	853	1475	215	373	265	941	14	853
	9. ANIMAL	44628	5	912	43711	69184	5	1028	68151	111	323	594	44628	5	1028
	10. FIXED OBJECT	38905	248	11175	27482	56362	275	14179	41908	2912	5346	5921	38905	275	14179
	11. OTHER OBJECT	1330	5	159	1166	2048	5	200	1843	34	59	107	1330	5	200
	TOTALS	187593	1022	44686	141885	422098	1160	67871	353067	12304	20689	34878	187593	1160	67871

ON ROADWAY ACCIDENTS		NUMBER OF ACCIDENTS				NUMBER OF PERSONS							THIS YEAR TO DATE		
		TOTAL	FATAL	INJURY	P.D.	TOTAL OCCUP.	KILLED	INJURED	NOT INJURED	INJURED A	INJURED B	INJURED C	ACCIDENTS	KILLED	INJURED
	1. OVERTURNED	1023	16	615	392	1510	16	808	686	205	327	276	1023	16	808
	2. OTHER NON-COLLISION	1186	7	240	939	2144	7	258	1879	68	108	82	1186	7	258
COLLISION WITH:	3. PEDESTRIAN	721	83	616	22	1893	85	653	1155	247	243	163	721	85	653
	4. M.V. IN TRANSPORT	83026	497	24422	58107	262827	592	41937	220298	6741	11018	24178	83026	592	41937
	5. M.V. - OTHER ROADWAY	55	4	31	20	197	6	78	113	23	20	35	55	6	78
	6. PARKED M.V.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7. RAILROAD TRAIN	147	18	65	64	212	23	94	95	48	22	24	147	23	94
	8. PEDALCYCLIST	908	13	775	120	2265	14	817	1434	210	355	252	908	14	817
	9. ANIMAL	44560	5	904	43651	69087	5	1018	68064	109	322	587	44560	5	1018
	10. FIXED OBJECT	820	2	114	704	1186	2	131	1053	17	46	68	820	2	131
	11. OTHER OBJECT	1258	4	142	1112	1940	4	180	1756	31	55	94	1258	4	180
	TOTALS	133704	649	27924	105131	343261	754	45974	296533	7699	12516	25759	133704	754	45974

OFF ROADWAY ACCIDENTS		NUMBER OF ACCIDENTS				NUMBER OF PERSONS							THIS YEAR TO DATE		
		TOTAL	FATAL	INJURY	P.D.	TOTAL OCCUP.	KILLED	INJURED	NOT INJURED	INJURED A	INJURED B	INJURED C	ACCIDENTS	KILLED	INJURED
COLLISION WITH:	1. OVERTURNED	9795	112	4924	4759	15065	118	6792	8155	1487	2534	2771	9795	118	6792
	2. OTHER NON-COLLISION	222	0	39	183	331	0	39	292	9	10	20	222	0	39
	3. PEDESTRIAN	73	5	66	2	177	5	76	96	27	29	20	73	5	76
	4. M.V. IN TRANSPORT	156	2	43	111	491	2	86	403	23	26	37	156	2	86
	5. M.V.-OTHER ROADWAY	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6. PARKED M.V.	5384	7	572	4805	7313	7	789	6517	154	251	384	5384	7	789
	7. RAILROAD TRAIN	1	0	1	0	2	0	1	1	0	0	1	1	0	1
	8. PEDALCYCLIST	33	0	31	2	77	0	36	41	5	18	13	33	0	36
	9. ANIMAL	68	0	8	60	97	0	10	87	2	1	7	68	0	10
	10. FIXED OBJECT	38085	246	11061	26778	55176	273	14048	40855	2895	5300	5853	38085	273	14048
	11. OTHER OBJECT	72	1	17	54	108	1	20	87	3	4	13	72	1	20
	TOTALS	53889	373	16762	36754	78837	406	21897	56534	4605	8173	9119	53889	406	21897

ROAD SURFACE	NUMBER OF ACCIDENTS			
	TOTAL	FATAL	INJURY	P.D.
DRY	113899	735	27170	85994
WET	29921	125	7730	22066
SNOWY/ICY	42127	155	9325	32647
OTHER	1646	7	461	1178
TOTAL	187593	1022	44686	141885

LIGHT CONDITION	NUMBER OF ACCIDENTS			
	TOTAL	FATAL	INJURY	P.D.
DAYLIGHT	99270	470	27030	71770
DAWN/DUSK	12726	45	2308	10373
DARKNESS/LIGHTS	5975	45	1743	4187
DARKNESS/NO LIGHTS	69121	462	13539	55120
NOT STATED	501	0	66	435
TOTAL	187593	1022	44686	141885

AGE	NUMBER OF PERSONS KILLED									
	TOTAL	MALE	FEMALE	DRIVER	PASS.	PED.	PEDAL/ CYCLE	M/CYCLE	FARM	OTHER
0 - 4	32	20	12	0	28	4	0	0	0	0
5 - 9	31	23	8	1	16	11	3	0	0	0
10 - 14	32	18	14	1	19	5	4	3	0	0
15 - 19	191	121	70	97	74	12	4	4	0	0
20 - 24	163	122	41	118	25	11	0	6	0	3
25 - 34	270	190	80	175	60	17	1	15	2	0
35 - 44	123	76	47	78	24	12	0	8	1	0
45 - 54	85	50	35	54	22	6	0	3	0	0
55 - 64	58	35	23	39	13	5	1	0	0	0
65 - 74	88	48	40	58	23	4	0	0	1	2
75 & Over	87	43	44	51	25	10	1	0	0	0
Not Stated	0	0	0	0	0	0	0	0	0	0
TOTAL	1160	746	414	672	329	97	14	39	4	5

CODE OF INJURY

A — INCAPACITATING INJURY
Any injury other than fatal which prevents normal activities and generally requires hospitalization.

B — NON-INCAPACITATING INJURY
Any injury not incapacitating but evident to others at the scene.

C — POSSIBLE INJURY
No visible injury but complaint of pain or momentary inconsciousness.

AGE	NUMBER OF PERSONS INJURED									
	TOTAL	MALE	FEMALE	DRIVER	PASS.	PED.	PEDAL/ CYCLE	M/CYCLE	FARM	OTHER
0 - 4	1479	775	704	15	1400	37	23	2	0	2
5 - 9	1964	1026	938	15	1627	106	198	11	1	6
10 - 14	2556	1270	1286	98	1877	144	316	93	4	24
15 - 19	14125	7208	6917	8337	5107	130	115	350	5	81
20 - 24	10397	5997	4400	7387	2480	82	47	315	0	86
25 - 34	14632	8183	6449	10963	2865	137	46	480	8	133
35 - 44	9105	4500	4605	7064	1539	80	25	303	10	84
45 - 54	5078	2446	2632	3826	1010	52	22	113	6	49
55 - 64	3441	1588	1853	2466	851	41	12	40	3	28
65 - 74	2581	1108	1473	1703	819	24	5	8	3	19
75 & Over	1486	646	840	911	544	14	4	5	1	7
Not Stated	1027	505	522	620	339	17	8	26	1	16
TOTAL	67871	35252	32619	43405	20458	864	821	1746	42	535

RURAL

MUNICIPALITIES	NUMBER OF PERSONS											THIS YEAR TO DATE			
		KILLED			INJURED			INJURY SEVERITY				ON ROADWAY		OFF ROADWAY	
	TOTAL OCCUP.	TOTAL	ON ROADWAY	OFF ROADWAY	TOTAL	ON ROADWAY	OFF ROADWAY	A	B	C	NOT INJURED	KILLED	INJURED	KILLED	INJURED
1. TOWNSHIPS	394287	1146	741	405	64699	43400	21299	11783	19717	33199	328442	741	43400	405	21299
2. UNDER 1,000	7344	5	4	1	886	678	208	173	279	434	6453	4	678	1	208
3. 1,000 - 2,500	20467	9	9	0	2286	1896	390	348	693	1245	18172	9	1896	0	390
4. 2,500 - 5,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5. 5,000 - 10,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6. 10,000 - 25,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7. 25,000 - 50,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8. 50,000 - 100,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9. 100,000 - 250,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10. 250,000 OR MORE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	422098	1160	754	406	67871	45974	21897	12304	20689	34878	353067	754	45974	406	21897

MUNICIPALITIES	NUMBER OF ACCIDENTS												THIS YEAR TO DATE			
	ALL ACCIDENTS				ON ROADWAY				OFF ROADWAY							
	TOTAL	FATAL	INJURY	P.D.	TOTAL	FATAL	INJURY	P.D.	TOTAL	FATAL	INJURY	P.D.	TOTAL	FATAL	INJURY	P.D
1. TOWNSHIPS	176792	1009	42453	133330	125688	637	26181	98870	51104	372	16272	34460	176792	1009	42453	133330
2. UNDER 1,000	2981	4	627	2350	2070	3	462	1605	911	1	165	745	2981	4	627	2350
3. 1,000 - 2,500	7820	9	1606	6205	5946	9	1281	4656	1874	0	325	1549	7820	9	1606	6205
4. 2,500 - 5,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5. 5,000 - 10,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6. 10,000 - 25,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7. 25,000 - 50,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8. 50,000 - 100,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9. 100,000 - 250,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10. 250,000 OR MORE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	187593	1022	44686	141885	133704	649	27924	105131	53889	373	16762	36754	187593	1022	44686	141885

CLASS OF TRAFFICWAY	NUMBER OF PERSONS											THIS YEAR TO DATE			
		KILLED			INJURED			INJURY SEVERITY				ON ROADWAY		OFF ROADWAY	
	TOTAL OCCUP.	TOTAL	ON ROADWAY	OFF ROADWAY	TOTAL	ON ROADWAY	OFF ROADWAY	A	B	C	NOT INJURED	KILLED	INJURED	KILLED	INJURED
1. INTERSTATE SYSTEM	28291	81	47	34	4353	2367	1986	745	1261	2347	23857	47	2367	34	1986
2. OTHER FULL CONTROL	8329	18	5	13	1208	527	681	254	366	588	7103	5	527	13	681
3. OTHER U.S. ROUTE	43554	121	103	18	6625	5327	1298	1163	1834	3628	36808	103	5327	18	1298
4. OTHER STATE M ROUTES	94979	267	213	54	14768	12216	2552	2688	4101	7979	79944	213	12216	54	2552
5. OTHER MAJOR ART'L.	6278	13	13	0	1079	989	90	158	305	616	5186	13	989	0	90
6. COUNTY ROADS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7. LOCAL STREETS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8. OTHER TRAFFICWAYS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9. LOCAL ROADS--N.K.	240667	660	373	287	39838	24548	15290	7296	12822	19720	200169	373	24548	287	15290
TOTALS	422098	1160	754	406	67871	45974	21897	12304	20689	34878	353067	754	45974	406	21897

CLASS OF TRAFFICWAY	NUMBER OF ACCIDENTS												THIS YEAR TO DATE			
	ALL ACCIDENTS				ON ROADWAY				OFF ROADWAY							
	TOTAL	FATAL	INJURY	P.D.	TOTAL	FATAL	INJURY	P.D.	TOTAL	FATAL	INJURY	P.D.	TOTAL	FATAL	INJURY	P.D.
1. INTERSTATE SYSTEM	12505	67	2954	9484	7704	37	1482	6185	4801	30	1472	3299	12505	67	2954	9484
2. OTHER FULL CONTROL	4046	18	844	3184	2537	5	344	2188	1509	13	500	996	4046	18	844	3184
3. OTHER U.S. ROUTE	17359	98	4062	13199	14064	83	3076	10905	3295	15	986	2294	17359	98	4062	13199
4. OTHER STATE M ROUTES	38155	234	9155	28766	31857	183	7189	24485	6298	51	1966	4281	38155	234	9155	28766
5. OTHER MAJOR ART'L.	2244	11	659	1574	1966	11	586	1369	278	0	73	205	2244	11	659	1574
6. COUNTY ROADS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7. LOCAL STREETS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8. OTHER TRAFFICWAYS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9. LOCAL ROADS – N.K.	113284	594	27012	85678	75576	330	15247	59999	37708	264	11765	25679	133284	594	27012	85678
TOTALS	187593	1022	44686	141885	133704	649	27924	105131	53889	373	16762	36754	187593	1022	44686	141885

PEDESTRIAN ACCIDENTS	ALL ACCIDENTS			FATAL			INJURY			PROPERTY DAMAGE		
	TOTAL	AT INTER.	NOT AT INTER.	TOTAL	AT INTER.	NOT AT INTER.	TOTAL	AT INTER.	NOT AT INTER.	TOTAL	AT INTER.	NOT AT INTER.
1. CAR GOING STRAIGHT	709	173	536	87	13	74	601	156	445	21	4	17
2. CAR TURNING RIGHT	15	14	1	1	1	0	13	12	1	1	1	0
3. CAR TURNING LEFT	37	27	10	0	0	0	36	26	10	1	1	0
4. CAR BACKING	28	6	22	0	0	0	27	6	21	1	0	1
5. ALL OTHERS	3	0	3	0	0	0	3	0	3	0	0	0
6. NOT STATED	2	0	2	0	0	0	2	0	2	0	0	0
TOTALS	794	220	574	88	14	74	682	200	482	24	6	18

PEDESTRIAN ACTIONS BY AGE	* PEDESTRIANS KILLED	AGE OF PEDESTRIANS KILLED AND INJURED									
		TOTAL	0 TO 4	5 TO 9	10 TO 14	15 TO 19	20 TO 24	25 TO 44	45 TO 64	65 & OLDER	NOT STATED
1a. CROSSING AT INTERSECTION OR IN CROSSWALK	10	227	10	37	52	34	13	37	23	18	3
1b. CROSSING NOT AT INTERSECTION OR IN CROSSWALK	44	282	22	66	61	30	15	51	17	17	3
2a. WALKING IN ROADWAY – WITH TRAFFIC	17	60	0	3	6	15	11	19	4	1	1
2b. WALKING IN ROADWAY – AGAINST TRAFFIC	1	9	0	0	1	2	2	3	0	1	0
3 . STANDING IN ROADWAY	7	48	1	2	1	9	8	18	6	3	0
4 . PUSHING OR WORKING ON VEHICLE IN ROADWAY	1	47	1	0	2	8	1	24	8	1	2
5 . OTHER WORKING IN ROADWAY	1	15	0	0	0	1	1	8	5	0	0
6 . PLAYING IN ROADWAY	0	1	0	0	0	1	0	0	0	0	0
7 . OTHER IN ROADWAY	6	97	2	3	6	11	18	36	16	2	3
8 . NOT IN ROADWAY	6	156	5	6	16	24	23	45	24	8	5
9 . NOT STATED	4	19	0	0	4	7	1	5	1	1	0
TOTALS	97	961	41	117	149	142	93	246	104	52	17

TS-1 (PART 2)

RURAL

TWO MOTOR VEHICLE ACCIDENTS		TOTAL	FATAL	INJURY	P.D.
AT INTERSECTION	1. ENTERING AT ANGLE	15838	170	5508	10160
	2a. FROM SAME DIRECTION (both going straight)	2817	0	580	2237
	2b. SAME – ONE TURN, ONE STRAIGHT	3336	4	763	2569
	2c. SAME–ONE STOPPED	9173	2	2602	6569
	2d. SAME–ALL OTHERS	628	0	30	598
	3a. FROM OPP. DIRECTION (both going straight)	947	12	319	616
	3b. SAME–ONE LEFT TURN, ONE STRAIGHT	4658	20	1911	2727
	3c. SAME–ALL OTHERS	293	1	38	254
	4. NOT STATED	929	0	77	852
	TOTALS	38619	209	11828	26582

TWO MOTOR VEHICLE ACCIDENTS		TOTAL	FATAL	INJURY	P.D.
NOT AT INTERSECTION	1. GOING OPP. DIRECTION (both going straight)	5625	212	2189	3224
	2. GOING SAME DIRECTION (both moving)	12120	34	2785	9301
	3a. ONE CAR PARKED	4455	7	495	3953
	3b. ONE CAR STOPPED IN TRAFFIC	8520	13	2600	5907
	4a. ONE CAR ENTERING PARKED POS.	18	0	2	16
	4b. ONE CAR LEAVING PARKED POS.	130	0	11	119
	5a. ONE CAR ENTER. DRIVEWAY ACCESS	9690	20	3083	6587
	5b. ONE CAR LEAVING DRIVEWAY ACCESS	8816	14	1906	6896
	6. ALL OTHERS/NOT STATED	628	1	169	458
	TOTALS	50002	301	13240	36461

ALL OTHER ACCIDENTS			TOTAL	FATAL	INJURY	P.D.
AT INTER.	COLLISION WITH:	1. OTHER ROAD VEH., OR RR TRAIN	442	3	357	82
		2. FIXED OBJECT	6639	21	1663	4955
		3. OTHER OBJECT OR ANIMAL	905	0	46	860
	4. OVERTURNING		890	7	458	425
	5. OTHER NONCOLLISION		177	1	58	118
NOT AT INTER.	COLLISION WITH:	6. OTHER ROAD VEH., OR RR TRAIN	647	28	515	104
		7. FIXED OBJECT	32266	227	9512	22527
		8. OTHER OBJECT OR ANIMAL	45052	10	1025	44017
	9. OVERTURNING		9928	121	5081	4726
	10. OTHER NONCOLLISION		1230	6	221	1003
	11. NOT STATED		1	0	0	1
	TOTALS		98178	424	18936	78818

HAZARDOUS ACTION *	NUMBER OF TRAFFIC UNITS			
	TOTAL	FATAL	INJURY	P.D.
1. NO VIOLATION	145601	708	32338	112555
2. SPEED TOO FAST	27277	301	9679	17297
3. SPEED TOO SLOW	104	0	48	56
4. DISREGARD CONTROL/ROW	26470	273	9735	16462
5. WRONG WAY	130	8	45	77
6. LEFT CENTER/IMPROPER PASS/LANE	10468	166	2721	7581
7. IMPROPER TURN/SIGNAL	4298	7	993	3298
8. IMPROPER BACKING/START	4206	2	230	3974
9. FOLLOWING/UNABLE TO STOP	57237	214	17577	39446
10. OTHER/NOT KNOWN	3749	36	1145	2568
11.				
12.				
13.				
14.				
TOTALS	279540	1715	74511	203314

CONTRIBUTING CIRCUMSTANCE *	NUMBER OF TRAFFIC UNITS			
	TOTAL	FATAL	INJURY	P.D.
1. NONE	138048	642	30421	106985
2. OUIL/DRUGS	6436	332	3033	3071
3. RECKLESS/CARELESS	5287	53	2765	2469
4. INATTENTION/III/ETC.	2111	6	937	1168
5. VIOLATION LICENSE RESTRICTION	25	0	9	16
6. OBSCURED VISION	3067	13	967	2087
7. DEFECTIVE EQUIPMENT	2637	10	716	1911
8. LOST CONTROL/LOAD/WIND	175	1	55	119
9. SKIDDING	16556	45	4532	11979
10. OTHER/NOT KNOWN	105198	613	31076	73509
11.				
12.				
13.				
14.				
TOTALS	279540	1715	74511	203314

* Includes pedestrians and drivers

MANNER OF TWO MOTOR VEHICLE COLLISION	TOTAL	FATAL	INJURY	P.D.
1. HEAD ON	6229	223	2423	3583
2. REAR END	13693	27	3140	10526
3. SIDESWIPE - MEETING	77	0	16	61
4. SIDESWIPE - PASSING	213	1	19	193
5. ANGLE	9355	145	3967	5243
6. BACKED INTO	1290	1	74	1215
7. ALL OTHERS	57737	113	15423	42201
8. NOT STATED	27	0	6	21
TOTALS	88621	510	25068	63043

TYPE OF VEHICLE	TOTAL	FATAL	INJURY	P.D.
1. PASSENGER CAR	206389	1133	55642	149614
2. PASSENGER CAR AND TRAILER	1425	6	336	1083
3. TRUCK OR TRUCK TRACTOR	50116	285	11635	38196
4. TRUCK TRACTOR AND SEMI-TRAILER	4913	72	1203	3638
5. OTHER TRUCK COMBINATION	1819	15	403	1401
6. FARM TRACTOR AND/OR FARM EQUIP.	277	7	82	188
7. BUS	169	2	41	126
8. SCHOOL BUS	699	4	146	549
9. MOTORCYCLE/MOTOR SCOOTER	1908	40	1570	298
10. OTHER/NOT STATED	10090	33	1786	8271
TOTALS	277805	1597	72844	203364

DRINKING CONDITION DRIVERS	NUMBER OF DRIVERS			
	TOTAL	FATAL	INJURY	P.D.
1. HAD BEEN DRINKING	18124	484	8496	9144
2. NOT KNOWN IF DRINKING	12707	28	1981	10698
3. HAD NOT BEEN DRINKING	246740	1084	62342	183314
TOTALS	277571	1596	72819	203156

DRINKING IN ACCIDENT	NUMBER OF ACCIDENTS			
	TOTAL	FATAL	INJURY	P.D.
1. HAD BEEN DRINKING	17736	477	8262	8997
2. NOT KNOWN IF DRINKING	5068	6	476	4586
3. HAD NOT BEEN DRINKING	164789	539	35948	128302
TOTALS	187593	1022	44686	141885

DRINKING CONDITION PEDESTRIAN	NUMBER OF PEDESTRIANS			
	TOTAL	FATAL	INJURY	P.D.
1. HAD BEEN DRINKING	53	37	14	2
2. NOT KNOWN IF DRINKING	805	9	772	24
3. HAD NOT BEEN DRINKING	140	59	81	0
TOTALS	998	105	867	26

TS-1 (PART 3)

AGE OF DRIVER	NUMBER OF DRIVERS			
	TOTAL	FATAL	INJURY	P.D.
1. 15 AND YOUNGER	912	11	494	407
2. 16	9833	44	3127	6662
3. 17	11126	51	3322	7753
4. 18 TO 19	22687	132	6659	15896
5. 20 TO 24	41745	248	11703	29794
6. 25 TO 34	68985	432	18090	50463
7. 35 TO 44	47948	260	12043	35645
8. 45 TO 54	27029	136	6534	20359
9. 55 TO 64	16616	90	4132	12394
10. 65 TO 74	10292	96	2871	7325
11. 75 AND OLDER	5114	75	1561	3478
12. NOT STATED *	15284	21	2283	12980
TOTAL	277571	1596	72819	203156
H & R DRIVERS (Not Apprehended)	8374	9	940	7425

* Includes Hit & Run Drivers

SEX OF DRIVER	TOTAL	FATAL	INJURY	P.D.
1. MALE	179283	1146	44800	133337
2. FEMALE	98288	450	28019	69819
TOTALS	277571	1596	72819	203156

RESIDENCE OF DRIVER	TOTAL	FATAL	INJURY	P.D.
1. LOCAL RESIDENT	188772	1004	51033	136735
2. RESIDING ELSEWHERE	68986	475	17826	50685
3. NON-RESIDENT	6587	62	1797	4728
4. NOT STATED	13226	55	2163	11008
TOTALS	277571	1596	72819	203156
DRIVERLESS MOVING	234	1	25	208

MILEAGE RATES	THIS YEAR TO DATE	LAST YEAR SAME PERIOD	PERCENT CHANGE
1. Motor Vehicle Traffic Deaths			%
2. Estimated Motor Veh. Mileage Traveled (billions)			%
3. Death Rate Per 100-Million-Vehicle-Miles			%
4. Fatal Accident Rate Per 100-Million-Vehicle-Miles			%

TRAFFIC ACCIDENT SUMMARY FOR CITIES (Continued)

CITIES	Total Accidents	Fatal Accidents	Personal Injury Accidents	Property Damage Accidents	Persons Killed	Persons Injured
Marine City	175	0	43	132	0	57
Marlette	67	0	9	58	0	18
Marquette	1,135	0	207	928	0	295
Marshall	267	0	48	219	0	62
Marysville	240	0	67	173	0	108
Mason	218	0	46	172	0	59
Melvindale	422	0	114	308	0	156
Memphis	23	0	4	19	0	5
Menominee	399	0	91	308	0	123
M.S.U.	474	0	103	371	0	119
Midland	1,655	0	387	1,268	0	537
Milan	99	0	8	91	0	9
Milford	171	0	22	149	0	29
Monroe	1,089	0	240	849	0	330
Montrose	45	0	9	36	0	13
Morrice	16	0	1	15	0	1
Mt. Clemens	903	0	220	683	0	311
Mt. Morris	118	0	31	87	0	38
Mt. Pleasant	855	1	190	664	1	262
Munising	48	0	10	38	0	12
Muskegon	2,151	6	594	1,551	6	856
Muskegon Heights	607	2	158	447	2	220
Negaunee	239	0	47	192	0	69
New Baltimore	270	0	92	178	0	134
New Buffalo	62	0	12	50	0	21
New Haven	93	1	37	55	1	65
Newberry	63	0	15	48	0	19
Niles	602	2	154	446	2	222
North Muskegon	132	1	37	94	1	59
Northville	197	1	52	144	1	72
Norton Shores	846	3	207	636	3	293
Norway	117	0	13	104	0	17
Novi	1,461	0	392	1,069	0	590
Oak Park	1,172	0	251	921	0	357
Otsego	127	0	34	93	0	45
Owosso	600	2	137	461	2	190
Oxford	146	0	45	101	0	59
Paw Paw	195	0	44	151	0	52
Perry	58	0	7	51	0	12
Petoskey	380	0	57	323	0	77
Plainwell	153	0	34	119	0	43
Pleasant Ridge	155	0	32	123	0	43
Plymouth	393	0	108	285	0	134
Pontiac	3,946	11	1,117	2,818	12	1,718
Port Huron	1,837	3	284	1,550	3	451
Portage	1,664	5	359	1,300	5	519
Portland	74	0	12	62	0	14
Richland	22	0	7	15	0	11
Richmond	126	0	26	100	0	37
River Rouge	171	0	31	140	0	37
Riverview	326	0	91	235	0	137
Rochester	415	0	80	335	0	116
Rochester Hills	2,344	4	621	1,719	4	945
Rockwood	47	0	8	39	0	11
Rogers City	87	0	14	73	0	20
Romeo	234	0	34	200	0	44
Romulus	1,566	6	470	1,090	6	673
Roosevelt Park	111	0	20	91	0	24
Roseville	3,188	5	820	2,363	5	1,148
Royal Oak	2,360	4	788	1,568	4	1,123
Saginaw	3,537	3	974	2,560	3	1,444
St. Clair	137	0	27	110	0	35
St. Clair Shores	1,407	0	545	862	0	763

TRAFFIC ACCIDENT SUMMARY FOR CITIES (Continued)

CITIES	Total Accidents	Fatal Accidents	Personal Injury Accidents	Property Damage Accidents	Persons Killed	Persons Injured
St. Ignace	75	0	14	61	0	24
St. Johns	298	0	46	252	0	61
St. Joseph	467	0	84	383	0	117
St. Louis	107	0	19	88	0	31
Saline	258	1	57	200	1	74
Sandusky	91	0	18	73	0	24
Sault Ste. Marie	768	1	122	645	1	154
South Haven	242	1	44	197	1	60
South Lyon	119	0	29	90	0	45
Southfield	3,787	10	1,329	2,448	11	1,990
Southgate	1,467	2	386	1,079	3	545
Sparta	112	0	26	86	0	34
Spring Lake	136	0	39	97	0	49
Springfield	290	0	83	207	0	119
Sterling Heights	4,462	5	1,201	3,256	6	1,806
Sturgis	436	1	113	322	1	154
Swartz Creek	175	2	50	123	3	76
Taylor	3,279	12	1,059	2,208	12	1,607
Tecumseh	276	0	44	232	0	63
Three Rivers	333	1	83	249	1	114
Traverse City	1,524	1	283	1,240	1	388
Trenton	586	3	163	420	3	259
Troy	4,018	10	930	3,078	10	1,372
Utica	532	0	142	390	0	196
Vassar	87	0	14	73	0	18
Wakefield	55	0	10	45	0	15
Walker	1,068	1	282	785	1	416
Walled Lake	322	0	73	249	0	109
Warren	5,966	15	1,807	4,144	17	2,684
Wayne	796	2	228	566	2	320
W.M.U.	167	0	23	144	0	27
Westland	2,294	9	868	1,417	10	1,353
Whitehall	123	2	20	101	2	34
Williamston	46	0	16	30	0	21
Wixom	378	0	85	293	0	136
Wolverine Lake	85	0	23	62	0	33
Woodhaven	474	1	126	347	1	190
Wyandotte	1,087	0	208	879	0	306
Wyoming	3,209	5	792	2,412	5	1,088
Ypsilanti	1,337	1	265	1,071	1	350
Zeeland	137	1	31	105	1	52
Atlas Twp.	127	1	39	87	1	54
Benton Twp.	1,080	5	272	803	5	402
Blackman Twp.	918	5	216	697	6	325
Bloomfield Twp.	1,972	2	566	1,404	2	856
Bridgeport Twp.	611	3	141	467	4	204
Brownstown Twp.	839	5	250	584	5	407
Buena Vista Twp.	565	1	162	402	1	247
Canton Twp.	1,766	5	483	1,278	7	711
Clay Twp.	233	3	66	164	3	112
Clinton Twp.	3,746	7	1,160	2,579	8	1,757
Davison Twp.	419	0	138	281	0	225
Delhi Twp.	587	1	149	437	2	225
DeWitt Twp.	488	4	116	368	4	171
Emmet Twp.	674	5	161	508	7	230
Flint Twp.	1,755	3	515	1,237	3	783
Genesee Twp.	638	2	190	446	2	292
Grand Blanc Twp.	784	3	203	578	3	286
Green Oak Twp.	453	1	125	327	1	181
Grosse Ile Twp.	138	0	33	105	0	42
Hampton Twp.	309	2	77	230	2	125
Huron Twp.	302	3	91	208	3	140
Kalamazoo Twp.	655	0	167	488	0	234

TRAFFIC ACCIDENT SUMMARY FOR CITIES (Continued)

CITIES	Total Accidents	Fatal Accidents	Personal Injury Accidents	Property Damage Accidents	Persons Killed	Persons Injured
Leoni Twp.	719	2	213	504	2	352
Meridian Twp.	1,221	3	337	881	3	519
Montrose Twp.	142	1	38	103	1	54
Mt. Morris Twp.	916	2	288	626	2	460
Napoleon Twp.	239	0	65	174	0	96
Niles Twp.	546	1	144	401	1	234
Northville Twp.	469	0	146	323	0	242
Oakland Twp.	297	2	92	203	2	124
Pittsfield Twp.	1,223	2	295	926	2	456
Redford Twp.	2,281	6	526	1,749	7	781
Richfield Twp.	209	0	62	147	0	97
Saginaw Twp.	1,509	6	419	1,084	6	633
St. Joseph Twp.	364	1	97	266	1	141
Shelby Twp.	1,621	2	451	1,168	2	668
Spaulding Twp.	99	1	22	76	1	39
Van Buren Twp.	855	5	200	650	5	297
Vienna Twp.	529	3	133	393	3	208
Waterford Twp.	3,834	8	1,170	2,656	8	1,747
West Bloomfield Twp.	1,540	3	356	1,181	3	518
White Lake Twp.	651	4	206	441	4	323
Wright Twp.	38	1	8	29	1	16

REPORTED STATEWIDE TRAFFIC ACCIDENTS BY COUNTY IN MICHIGAN

COUNTY	All	Fatal	Injury	Property Damage	Inter-state	Local Street	State Route	Persons Killed	Persons Injured
Alcona	883	2	107	774	0	536	347	2	154
Alger	418	0	99	319	0	149	269	0	143
Allegan	3,772	32	909	2,831	243	2,358	1,171	39	1,365
Alpena	1,320	3	269	1,048	0	748	572	6	400
Antrim	870	4	146	720	0	487	383	4	211
Arenac	1,022	9	202	811	106	415	501	13	303
Baraga	447	3	62	382	0	203	244	4	88
Barry	2,382	15	519	1,848	0	1,637	745	15	740
Bay	4,730	27	1,242	3,461	288	2,789	1,653	29	1,911
Benzie	676	1	113	562	0	387	289	1	162
Berrien	7,192	27	1,714	5,451	1,238	3,978	1,976	29	2,581
Branch	2,012	8	365	1,639	163	1,221	628	9	576
Calhoun	6,995	24	1,511	5,460	1,308	4,519	1,168	31	2,164
Cass	2,134	12	451	1,671	0	1,218	916	15	660
Charlevoix	1,221	5	190	1,026	0	644	577	6	278
Cheboygan	1,002	3	274	725	159	528	315	4	411
Chippewa	1,468	5	272	1,191	409	779	280	6	376
Clare	1,659	5	280	1,374	0	859	800	5	433
Clinton	2,461	16	541	1,904	377	1,432	652	19	829
Crawford	870	6	156	708	285	341	244	9	242
Delta	2,429	6	425	1,998	0	1,353	1,076	6	620
Dickinson	1,518	7	252	1,259	0	689	829	8	370
Eaton	3,993	22	1,011	2,960	473	1,962	1,558	25	1,478
Emmet	1,585	1	297	1,287	10	771	804	1	453
Genesee	16,416	60	4,619	11,737	1,723	11,217	3,476	69	7,061
Gladwin	1,078	1	196	881	0	611	467	1	279
Gogebic	762	3	132	627	0	353	409	3	184
Grand Traverse	3,728	13	859	2,856	0	2,380	1,348	16	1,277
Gratiot	1,715	7	401	1,307	0	957	758	8	638

REPORTED STATEWIDE TRAFFIC ACCIDENTS BY COUNTY IN MICHIGAN (Continued)

COUNTY	All	Fatal	Injury	Property Damage	Inter-state	Local Street	State Route	Persons Killed	Persons Injured
Hillsdale	2,132	12	437	1,683	0	1,332	800	15	669
Houghton	1,363	10	235	1,118	0	551	812	10	342
Huron	1,662	12	337	1,313	0	875	787	15	528
Ingham	12,377	20	3,090	9,267	1,912	7,210	3,255	21	4,380
Ionia	2,727	14	514	2,199	283	1,653	791	16	765
Iosco	1,552	7	273	1,272	0	817	735	9	434
Iron	890	4	103	783	0	376	514	4	171
Isabella	2,561	10	523	2,028	0	1,634	927	11	755
Jackson	7,391	34	1,785	5,572	1,210	4,679	1,502	35	2,588
Kalamazoo	10,762	28	2,235	8,499	949	7,731	2,082	28	3,124
Kalkaska	774	7	138	629	0	421	353	9	233
Kent	23,850	74	5,867	17,909	1,395	15,947	6,508	76	8,372
Keweenaw	59	1	20	38	0	23	36	1	27
Lake	520	3	90	427	0	325	195	3	133
Lapeer	3,412	15	798	2,599	150	2,116	1,146	15	1,198
Leelanau	766	3	121	642	0	393	373	3	171
Lenawee	3,804	29	964	2,811	0	2,172	1,632	38	1,476
Livingston	5,238	28	1,311	3,899	1,000	3,172	1,066	31	1,914
Luce	297	2	65	230	0	119	178	2	97
Mackinac	810	5	119	686	112	230	468	7	194
Macomb	29,097	57	8,363	20,677	1,779	18,803	8,515	63	12,281
Manistee	1,022	7	155	860	0	648	374	7	212
Marquette	3,218	6	638	2,574	0	1,807	1,411	6	923
Mason	1,504	6	293	1,205	0	886	618	7	474
Mecosta	2,549	10	457	2,082	0	1,377	1,172	10	652
Menominee	1,854	1	262	1,591	0	1,073	781	1	361
Midland	3,437	10	766	2,661	0	2,536	901	10	1,130
Missaukee	623	4	107	512	0	330	293	5	160
Monroe	5,713	31	1,729	3,953	551	3,253	1,909	37	2,695
Montcalm	3,028	13	513	2,502	0	1,798	1,230	14	805
Montmorency	457	2	91	364	0	241	216	2	143
Muskegon	6,834	36	1,731	5,067	482	4,625	1,727	38	2,530
Newaygo	1,961	11	428	1,522	0	1,258	703	13	653
Oakland	48,584	120	13,494	34,970	5,081	32,686	10,817	129	19,926
Oceana	1,196	7	225	964	0	796,796	400	9	336
Ogemaw	1,250	5	203	1,042	250	698	302	5	309
Ontonagon	482	3	61	418	0	138	344	3	97
Osceola	1,441	8	256	1,177	0	714	727	9	388
Oscoda	511	0	75	436	0	292	219	0	102
Otsego	1,023	6	209	808	250	552	221	6	290
Ottawa	7,063	30	1,680	5,353	495	4,750	1,818	33	2,575
Presque Isle	799	2	102	695	0	381	418	2	164
Roscommon	1,059	5	201	853	128	508	423	5	307
Saginaw	9,605	30	2,551	7,024	569	5,908	3,128	31	3,888
St. Clair	5,712	38	1,400	4,274	841	3,353	1,518	44	2,222
St. Joseph	2,694	23	68	1,987	0	1,429	1,265	27	1,043
Sanilac	1,778	14	376	1,388	0	1,007	771	18	573
Schoolcraft	523	1	88	434	0	178	345	1	131
Shiawassee	2,811	24	703	2,084	293	1,651	867	27	1,059
Tuscola	2,359	20	535	1,804	0	1,445	914	24	857
Van Buren	2,964	19	710	2,235	566	1,697	701	21	1,097
Washtenaw	13,170	40	3,150	9,980	1,643	8,433	3,094	46	4,433
Wayne	89,813	223	25,015	64,575	9,534	59,978	20,301	239	37,310
Wexford	1,413	6	293	1,114	0	534	879	6	453
TOTALS	417,252	1,463	104,183	311,606	36,255	263,060	117,937	1,630	154,537

MOTOR VEHICLE TRAFFIC DEATHS BY COUNTY

County	1985	1986	1987	1988	1989	5 Year Total
POPULATION UNDER 10,000						
Alcona.....	4	5	3	3	2	17
Alger.....	5	3	2	1	0	11
Baraga.....	7	3	3	4	4	21
Crawford.....	4	5	4	5	9	27
Keweenaw.....	0	1	1	0	1	3
Lake.....	4	3	3	1	3	14
Luce.....	1	1	2	2	2	8
Montmorency.....	3	2	2	2	2	11
Ontonagon.....	1	3	3	1	3	11
Oscoda.....	2	0	2	8	0	12
Schoolcraft.....	3	3	2	0	1	9
POPULATION 10,000-15,000						
Arenac.....	7	7	5	9	13	41
Benzie.....	2	0	6	2	1	11
Iron.....	0	3	1	8	4	16
Kalkaska.....	2	8	6	6	9	31
Leelanau.....	6	1	5	0	3	15
Mackinac.....	3	7	5	6	7	28
Missaukee.....	2	1	3	4	5	15
Otsego.....	8	4	2	4	6	24
Presque Isle....	2	4	0	4	2	12
POPULATION 15,000-25,000						
Antrim.....	10	9	4	1	4	28
Charlevoix.....	4	2	8	5	6	25
Cheboygan.....	1	10	4	9	4	28
Clare.....	4	8	10	9	5	36
Emmet.....	12	5	4	9	1	31
Gladwin.....	1	3	5	2	1	12
Gogebic.....	1	2	6	5	3	17
Manistee.....	2	4	3	3	7	19
Oceana.....	3	3	8	9	9	32
Ogemaw.....	4	3	6	10	5	28
Osceola.....	6	8	7	7	9	37
Roscommon.....	4	10	8	12	5	39

MOTOR VEHICLE TRAFFIC DEATHS BY COUNTY (Continued)

County	1985	1986	1987	1988	1989	5 Year Total
POPULATION 25,000-50,000						
Alpena	6	8	8	6	6	34
Barry	14	20	23	17	15	89
Branch	8	10	10	2	9	39
Cass	7	18	17	13	15	70
Chippewa	3	1	6	7	6	23
Delta	7	3	9	8	6	33
Dickinson	3	9	5	3	8	28
Gratiot	12	4	17	14	8	55
Hillsdale	11	10	11	7	15	54
Houghton	6	3	3	7	10	29
Huron	13	7	5	8	15	48
Iosco	7	9	13	6	9	44
Mason	4	8	8	6	7	33
Mecosta	4	13	6	10	10	43
Menominee	4	12	3	6	1	26
Montcalm	9	17	18	20	14	78
Newaygo	11	19	10	9	13	62
Sanilac	8	12	16	19	18	73
Wexford	8	6	18	11	6	49
POPULATION 50,000-100,000						
Allegan	32	14	36	36	39	157
Clinton	13	17	11	18	19	78
Eaton	21	19	14	18	25	97
Grand Traverse	16	14	11	9	16	66
Ionia	14	17	18	18	16	83
Isabella	13	19	4	12	11	59
Lapeer	20	20	28	23	15	106
Lenawee	17	27	24	24	38	130
Marquette	9	7	13	9	6	44
Midland	10	21	18	14	10	73
Shiawassee	19	27	8	17	27	98
St. Joseph	25	9	17	20	27	98
Tuscola	17	19	16	15	24	91
Van Buren	15	17	24	22	21	99
POPULATION OVER 100,000						
Bay	16	28	24	22	29	119
Berrien	45	40	45	40	29	199
Calhoun	29	32	24	27	31	143
Genesee	70	103	79	65	69	386
Ingham	33	23	39	31	21	147
Jackson	23	33	28	40	35	159
Kalamazoo	37	34	30	36	28	165
Kent	74	64	85	105	76	404
Livingston	26	17	31	28	31	133
Macomb	87	103	92	97	63	442
Monroe	32	27	39	47	37	182
Muskegon	25	23	39	31	38	156
Oakland	161	130	132	130	129	682
Ottawa	22	36	34	39	33	164
Saginaw	39	39	38	45	31	192
St. Clair	32	39	26	24	44	165
Washtenaw	42	40	38	38	46	204
Wayne	272	254	228	274	239	1,267
TOTALS	1,569	1,632	1,632	1,704	1,630	8,167

MOTOR VEHICLE TRAFFIC DEATHS IN SELECTED CITIES
10,000 POPULATION AND OVER

City	1985	1986	1987	1988	1989	5 Year Total
POPULATION 10,000-15,000						
Albion.....	0	0	1	1	0	2
Alpena.....	0	2	0	1	0	3
Benton Harbor...	4	2	0	0	0	6
Beverly Hills...	1	1	1	2	0	5
Big Rapids.....	0	2	0	0	0	2
Center Line.....	0	0	1	3	2	6
East Grand Rapids	0	0	0	1	1	2
Ecorse.....	1	1	1	0	0	3
Escanaba.....	1	0	1	0	0	2
Farmington.....	0	0	0	0	3	3
Fraser.....	1	3	2	2	0	8
Grand Haven.....	2	1	1	1	0	5
Grandville.....	1	1	1	1	2	6
Grosse Pointe Farms	0	0	0	2	0	2
Grosse Pointe Park	0	0	0	0	0	0
Melvindale.....	0	0	0	2	0	2
Menominee.....	0	1	2	1	0	4
Muskegon Heights	1	3	1	0	2	7
Niles.....	2	3	0	1	2	8
Plymouth.....	0	0	0	0	0	0
River Rouge.....	1	4	0	0	0	5
Riverview.....	2	0	0	1	0	3
St. Joseph.....	0	0	0	0	0	0
Sault Ste. Marie	1	1	0	2	1	5
POPULATION 15,000-25,000						
Adrian.....	7	0	1	1	2	11
Berkley.....	0	0	0	2	2	4
Birmingham.....	2	1	0	1	0	4
Clawson.....	3	1	1	0	2	7
Grosse Pointe Woods	0	0	0	0	0	0
Hamtramck.....	2	5	1	1	1	10
Harper Woods....	0	0	1	1	0	2
Hazel Park.....	1	2	3	3	3	12
Holland.....	2	2	1	3	2	10
Marquette.....	3	2	1	0	0	6
Monroe.....	2	1	4	1	0	8
Mount Clemens...	3	2	4	3	0	12
Mount Pleasant..	2	1	0	1	1	5
Norton Shores...	1	2	6	5	3	17
Owosso.....	1	2	0	1	2	6
Romulus.....	9	10	8	5	6	38
Traverse City...	0	1	1	2	1	5
Trenton.....	3	3	1	1	3	11
Walker.....	4	5	5	1	1	16
Wayne.....	5	1	0	3	2	11
Ypsilanti.....	2	1	2	1	1	7

MOTOR VEHICLE TRAFFIC DEATHS IN SELECTED CITIES 10,000 POPULATION AND OVER (Continued)

City	1985	1986	1987	1988	1989	5 Year Total
POPULATION 25,000-50,000						
Allen Park.....	1	4	2	5	4	16
Battle Creek....	8	7	3	3	8	29
Bay City.....	2	3	1	2	5	13
East Detroit....	3	1	4	3	1	12
Ferndale.....	4	0	1	0	2	7
Garden City.....	1	0	2	2	0	5
Highland Park...	7	8	5	4	3	27
Inkster.....	1	7	4	4	3	19
Jackson.....	4	1	3	2	5	15
Kentwood.....	3	1	5	10	6	25
Lincoln Park....	1	4	0	4	4	13
Madison Heights.	4	7	1	2	0	14
Midland.....	1	4	4	4	0	13
Muskegon.....	3	4	5	6	6	24
Oak Park.....	0	1	0	1	0	2
Port Huron.....	6	4	3	2	3	18
Portage.....	7	3	2	3	5	20
Southgate.....	1	3	3	1	3	11
Wyandotte.....	2	1	1	3	0	7
POPULATION OVER 50,000						
Ann Arbor.....	1	3	0	0	5	9
Dearborn.....	17	12	12	10	8	59
Dearborn Heights	3	8	6	6	8	31
Detroit.....	161	116	134	158	126	695
East Lansing....	3	0	0	1	0	4
Flint.....	23	37	22	20	21	123
Grand Rapids....	9	14	17	13	17	70
Kalamazoo.....	4	6	6	10	3	29
Lansing.....	11	8	15	11	10	55
Livonia.....	6	8	13	12	12	51
Pontiac.....	12	13	8	11	12	56
Roseville.....	5	3	9	8	5	30
Royal Oak.....	2	7	7	4	4	24
Saginaw.....	4	12	2	5	3	26
St. Clair Shores	3	4	6	2	0	15
Southfield.....	7	5	7	9	11	39
Sterling Heights	15	14	6	7	6	48
Taylor.....	8	16	6	10	12	52
Troy.....	15	8	1	10	10	44
Warren.....	14	25	11	17	17	84
Westland.....	5	10	5	7	10	37
Wyoming.....	9	7	3	4	5	28

DEATHS, INJURIES, AND ACCIDENTS BY LOCATION

Year	STATEWIDE			RURAL	
	Total	Urban	Rural	Trunk-line	County Road
DEATHS					
1970	2,177	662	1,515	746	769
1971	2,152	661	1,491	737	754
1972	2,258	737	1,521	743	778
1973	2,213	709	1,504	730	774
1974	1,875	640	1,235	533	702
1975	1,811	610	1,201	692	509
1976	1,955	691	1,264	569	695
1977	1,950	628	1,322	605	717
1978	2,076	677	1,399	641	758
1979	1,849	580	1,269	579	690
1980	1,774	601	1,173	518	655
1981	1,589	533	1,056	451	605
1982	1,417	484	933	422	511
1983	1,331	433	898	355	543
1984	1,556	486	1,070	450	620
1985	1,569	524	1,045	470	575
1986	1,632	541	1,091	434	657
1987	1,632	459	1,173	516	657
1988	1,704	506	1,198	539	659
1989	1,630	470	1,160	500	660
INJURIES					
1970	161,719	102,960	58,759	26,205	32,554
1971	157,664	99,762	57,902	25,890	32,012
1972	178,929	115,834	63,095	28,147	34,948
1973	169,485	108,170	61,315	25,599	35,716
1974	141,132	88,755	52,377	20,209	32,168
1975	147,299	91,573	55,726	21,053	34,673
1976	162,894	99,704	63,190	25,251	37,939
1977	166,389	99,612	66,777	26,927	39,850
1978	169,202	99,533	69,669	28,194	41,475
1979	162,571	97,167	65,404	26,171	39,233
1980	144,972	85,760	59,212	22,508	36,704
1981	136,455	80,736	55,719	21,431	34,288
1982	130,061	76,885	53,176	21,024	32,152
1983	135,811	80,792	55,019	21,457	33,562
1984	150,740	89,912	60,828	24,427	36,401
1985	157,417	94,355	63,062	25,628	37,434
1986	158,032	94,136	63,896	25,073	38,823
1987	156,318	90,763	65,555	26,890	38,665
1988	155,713	89,189	66,524	27,212	39,312
1989	154,537	86,666	67,871	28,033	39,838
ACCIDENTS					
1970	313,715	210,932	102,783	44,984	57,799
1971	314,015	204,095	109,920	48,941	60,979
1972	359,745	236,116	123,629	53,673	69,956
1973	350,864	228,660	122,204	50,431	71,773
1974	324,763	210,716	114,047	43,396	70,651
1975	333,560	213,934	119,626	44,707	74,919
1976	365,600	232,293	133,307	52,401	80,906
1977	374,751	232,322	142,429	55,813	86,616
1978	389,193	239,201	149,992	58,582	91,410
1979	366,435	226,717	139,718	54,759	84,959
1980	314,594	189,285	125,309	46,853	78,456
1981	302,831	180,528	122,303	46,378	75,925
1982	294,971	176,752	118,219	45,222	72,997
1983	300,797	178,906	121,891	46,387	75,504
1984	335,193	198,846	136,347	53,865	82,482
1985	386,904	231,318	155,586	62,087	93,499
1986	400,694	236,626	164,068	64,023	100,045
1987	397,224	229,669	167,555	66,427	101,128
1988	410,437	231,764	178,673	70,669	108,004
1989	417,252	229,659	187,593	74,309	113,284

MOTOR VEHICLE TRAFFIC DEATHS IN MICHIGAN BY MONTH

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1942.....	139	114	89	96	129	92	120	125	146	109	87	79	1,325
1943.....	59	51	79	44	75	89	82	67	110	118	96	122	992
1944.....	130	100	81	82	49	57	59	95	68	97	116	100	1,034
1945.....	71	60	85	78	74	71	94	88	118	160	131	120	1,150
1946.....	107	98	121	88	110	106	119	130	123	143	160	165	1,470
1947.....	86	86	85	113	124	114	134	149	134	142	145	135	1,447
1948.....	89	64	92	109	125	118	138	134	150	133	165	195	1,512
1949.....	101	82	106	91	110	99	116	138	169	144	149	136	1,441
1950.....	105	84	87	139	122	125	153	152	157	174	154	153	1,605
1951.....	131	103	103	117	119	137	170	163	158	146	160	133	1,640
1952.....	81	121	125	94	145	169	140	184	181	152	166	178	1,736
1953.....	139	116	136	132	134	173	176	183	187	187	167	175	1,905
1954.....	130	126	100	119	149	132	182	167	168	167	153	200	1,793
1955.....	134	117	116	160	157	192	169	209	160	204	208	190	2,016
1956.....	166	136	132	140	133	115	149	159	169	144	145	158	1,746
1957.....	121	98	118	118	130	122	127	152	123	143	135	161	1,548
1958.....	94	90	95	89	92	112	120	134	132	113	165	146	1,382
1959.....	76	69	91	126	126	124	148	128	155	125	144	161	1,473
1960.....	139	76	102	105	107	133	159	154	137	186	152	154	1,604
1961.....	105	99	113	138	133	114	141	166	128	139	148	143	1,567
1962.....	94	70	115	110	123	147	166	175	170	172	118	114	1,574
1963.....	107	95	124	142	148	173	188	177	163	179	196	195	1,887
1964.....	170	159	158	144	164	167	217	197	177	199	177	193	2,122
1965.....	153	113	135	143	156	181	211	220	193	214	172	245	2,136
1966.....	147	156	179	151	207	204	212	206	203	220	205	208	2,298
1967.....	130	105	141	162	187	140	210	189	223	230	216	204	2,137
1968.....	130	147	164	150	240	214	208	233	209	248	283	166	2,392
1969.....	137	158	173	169	239	236	218	254	230	236	219	218	2,487
1970.....	167	143	160	141	214	205	197	204	213	217	178	138	2,177
1971.....	137	124	155	144	187	212	222	227	155	209	202	178	2,152
1972.....	156	161	155	150	204	209	225	210	225	219	174	170	2,258
1973.....	187	156	173	140	180	230	225	201	204	209	171	137	2,213
1974.....	111	112	107	116	144	197	189	178	200	195	201	125	1,875
1975.....	120	97	112	93	149	169	195	203	190	162	161	160	1,811
1976.....	118	102	134	150	163	169	196	227	189	171	174	162	1,955
1977.....	126	87	122	143	184	179	223	194	164	189	181	158	1,950
1978.....	98	104	128	177	178	203	206	229	214	199	183	157	2,076
1979.....	102	103	129	152	146	155	190	171	174	182	171	169	1,849
1980.....	117	131	109	116	153	170	142	183	192	152	133	176	1,774
1981.....	99	100	108	116	116	155	159	171	149	155	113	148	1,589
1982.....	98	79	93	91	114	121	154	153	128	144	131	111	1,417
1983.....	113	94	83	91	91	127	121	117	131	153	115	95	1,331
1984.....	93	84	104	94	125	143	175	174	135	153	134	142	1,556
1985.....	108	91	77	133	137	167	146	136	131	135	161	147	1,569
1986.....	86	77	103	127	131	175	186	176	131	144	159	137	1,632
1987.....	91	104	99	106	138	165	151	176	149	164	161	128	1,632
1988.....	129	107	103	104	145	152	175	158	178	159	127	167	1,704
1989.....	138	102	94	96	123	156	156	177	155	146	123	164	1,630

TREND DATA FOR FATAL ACCIDENTS

TREND DATA	1985	1986	1987	1988	1989
AGE OF PERSONS KILLED, TOTAL					
0 - 4 years	35	28	46	38	43
5 - 9 years	57	32	38	51	42
10 - 14 years	55	61	56	51	44
15 - 19 years	216	268	273	235	241
20 - 24 years	238	251	217	246	213
25 - 34 years	317	316	370	382	359
35 - 44 years	182	190	200	208	199
45 - 54 years	119	119	103	141	129
55 - 64 years	121	104	109	106	92
65 - 74 years	104	118	106	114	128
75 years and over	124	143	111	128	140
Not Stated	1	2	3	4	0
TOTALS	1,569	1,632	1,632	1,704	1,630
AGE OF PERSONS KILLED, PEDESTRIANS					
0 - 4 years	6	7	6	8	10
5 - 9 years	26	20	21	23	16
10 - 14 years	16	19	16	18	9
15 - 19 years	25	25	14	16	15
20 - 24 years	18	21	19	16	17
25 - 34 years	42	36	44	58	29
35 - 44 years	33	24	28	38	27
45 - 54 years	13	17	17	26	16
55 - 64 years	24	19	25	10	15
65 - 74 years	18	24	10	15	8
75 years and over	29	25	31	25	28
Not Stated	1	2	1	1	0
TOTALS	251	239	232	254	190
AGE OF DRIVERS INVOLVED					
15 years and under	15	23	25	16	16
16 years	65	53	58	56	52
17 years	69	78	93	75	69
18 - 19 years	170	174	176	183	180
20 - 24 years	408	399	343	408	347
25 - 34 years	548	559	633	612	607
35 - 44 years	318	348	343	366	381
45 - 54 years	188	191	189	217	205
55 - 64 years	159	159	148	164	138
65 years and over	185	211	203	224	254
Not Stated	64	39	51	62	54
TOTALS	2,189	2,234	2,262	2,383	2,303
PEDESTRIAN ACTION					
Crosssing at intersection	51	59	55	51	38
Cross not at intersection	96	96	82	99	86
In road with traffic	25	15	14	27	19
In road against traffic	3	8	2	5	2
Standing or lying in road	12	14	16	21	17
Pushing/working on vehicle	4	5	3	4	1
Other working in road	1	3	3	1	2
Playing in road	1	1	0	0	0
In road for other reason.	24	15	22	11	12
Not in road	18	14	16	21	7
Other or not stated	16	9	19	14	6
TOTALS	251	239	232	254	190

FATAL ACCIDENTS AND PERSONS KILLED FOR SELECTED HOLIDAY PERIODS IN MICHIGAN

Holiday	Fatal Accidents	Persons Killed
MEMORIAL DAY		
1989 (3).....	12	15
1988 (3).....	19	22
1987 (3).....	15	16
1986 (3).....	14	16
1985 (3).....	18	23
FOURTH OF JULY		
1989 (4).....	22	23
1988 (3).....	16	20
1987 (3).....	18	18
1986 (3).....	23	23
1985 (4).....	15	17
LABOR DAY		
1989 (3).....	23	29
1988 (3).....	16	17
1987 (3).....	27	32
1986 (3).....	18	21
1985 (3).....	14	17
THANKSGIVING		
1989 (4).....	14	14
1988 (4).....	20	24
1987 (4).....	21	26
1986 (4).....	15	17
1985 (4).....	22	23
CHRISTMAS		
1989 (3).....	22	27
1988 (3).....	8	14
1987 (4).....	6	8
1986 (2).....	9	9
1985 (2).....	7	9
NEW YEARS		
1989 (3).....	3	3
1988 (3).....	12	14
1987 (4).....	14	17
1986 (2).....	7	8
1985 (2).....	4	5

Summary for 1989

This schedule shows traffic death tolls in Michigan for the past five years for the major holiday periods.

Based on the total 1989 experience, deaths averaged 4.5 per day.

All weekend deaths, Saturdays and Sundays, plus six hours of the preceding Fridays, totaled 679 which is an average of 13.1 deaths per weekend.

From experience, it is evident that Michigan's highways have their share of tragedies.

Figures in parentheses show number of full days in each holiday period.
Deaths are for these days plus the last six hours of the preceding day.

MOTOR VEHICLE TRAFFIC ACCIDENT AND RELATED DATA

Year	Deaths	Injuries	Accidents	Estimated Mileage (Millions)	Motor Vehicle Registrations*	Death Rate**
1948	1,512	40,892	140,172	19,069.2	2,030,685	7.9
1949	1,441	41,197	143,197	19,990.4	2,203,375	7.2
1950	1,605	45,734	161,750	21,494.5	2,439,593	7.5
1951	1,640	48,418	176,587	22,668.1	2,560,652	7.2
1952	1,736	49,119	160,829	23,093.1	2,586,834	7.5
1953	1,905	57,834	184,174	25,346.9	2,808,921	7.5
1954	1,793	56,444	185,534	26,041.2	2,889,740	6.9
1955	2,016	62,234	196,812	28,282.5	3,149,323	7.1
1956	1,746	61,158	197,995	28,429.3	3,173,704	6.1
1957	1,548	60,067	191,915	29,252.2	3,256,150	5.3
1958	1,382	57,767	177,934	29,411.3	3,157,441	4.7
1959	1,473	64,873	198,771	30,679.0	3,252,492	4.8
1960	1,604	91,026	209,724	31,843.4	3,352,234	5.0
1961	1,567	93,350	199,973	32,101.5	3,395,736	4.9
1962	1,574	108,143	233,078	34,498.0	3,498,758	4.6
1963	1,887	126,896	261,794	36,452.2	3,646,080	5.2
1964	2,122	144,623	284,444	38,617.6	3,860,791	5.5
1965	2,136	155,258	310,598	40,857.4	4,066,826	5.2
1966	2,298	156,694	302,880	43,940.1	4,133,199	5.2
1967	2,137	151,297	299,004	45,053.6	4,161,573	4.7
1968	2,392	160,413	305,495	48,047.4	4,327,885	5.0
1969	2,487	175,400	331,223	50,904.9	4,560,097	4.9
1970	2,177	161,719	313,715	53,148.1	4,683,919	4.1
1971	2,152	157,664	314,015	55,539.7	4,835,146	3.9
1972	2,258	178,929	359,745	57,817.1	5,160,985	3.9
1973	2,213	169,485	350,864	58,478.4	5,442,233	3.8
1974	1,875	141,132	324,763	55,748.7	5,652,406	3.4
1975	1,811	147,299	333,560	56,260.5	5,744,441	3.2
1976	1,955	162,894	365,600	61,638.0	5,861,908	3.2
1977	1,950	166,389	374,751	64,853.0	6,138,732	3.0
1978	2,076	169,202	389,193	67,380.0	6,436,365	3.1
1979	1,849	162,571	366,435	64,882.3	6,536,246	2.8
1980	1,774	144,972	314,594	61,190.1	6,570,735	2.9
1981	1,589	136,455	302,831	62,000.0	6,140,286	2.6
1982	1,417	130,061	294,971	61,321.0	6,400,942	2.3
1983	1,331	135,811	300,797	63,560.1	6,443,499	2.1
1984	1,556	150,740	335,193	65,727.0	6,509,192	2.4
1985	1,569	157,417	386,904	68,413.0	6,857,364	2.3
1986	1,632	158,032	400,694	70,622.0	6,952,263	2.3
1987	1,632	156,318	397,224	75,715.0	7,061,339	2.2
1988	1,704	155,713	410,437	77,700.0	7,196,609	2.2
1989	1,630	154,537	417,252	79,900.0	7,233,823	2.0

*Excludes trailers and trailer coaches.
**Deaths per 100 million miles of travel.